

**HRS DOCUMENTATION RECORD COVER SHEET**

**Name of Facility:** Arkla Terra Property  
**EPA ID No.** FLSFN0406909

Contact Persons

U.S. Environmental Protection Agency (EPA), Region 4:

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Investigation: Special Studies Investigation 06/24/2005  
Preliminary Scoring Strategy 06/30/2006

Documentation Record: Stacy Kowalski, Project Manager  
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Pathways, Components, or Threats Not Scored

The Arkla Terra Property is being scored on the ground water migration pathway. The evaluation of the ground water migration pathway yields a score above the NPL listing cutoff value of 28.50. Level I and Level II ground water targets have been identified within the target distance limit of the property, and municipal drinking water wells are located within a 4-mile radius. No surface water migration, air migration, or soil exposure pathway releases have been documented, and these pathway scores do not contribute significantly to the overall HRS score for the Arkla Terra Property.

## HRS DOCUMENTATION RECORD

Name of Facility: Arkla Terra Property

EPA Region: 4

Date: September 2008

Street Address of Facility\*: 11706 US Hwy 301

City, County, State, Zip: Thonotosassa, Hillsborough County, Florida, 33592

General Location in the State: West-Central

Topographic Map: Thonotosassa, Florida

Latitude: 28°03'28" North      Longitude: 82°19'03" West (Refs. 3)

\*The street address, coordinates, and contaminant locations presented in this Hazard Ranking System (HRS) documentation record identify the general area in which the site is located. They represent one or more locations that the U.S. Environmental Protection Agency (EPA) considers to be part of the site based on the screening information EPA used to evaluate the site for National Priority List (NPL) listing. EPA lists national priorities among the known "releases or threatened releases" of hazardous substances; thus, the focus is on the release, not precisely delineated boundaries. A site is defined as where a hazardous substance has been "deposited, stored, placed, or otherwise come to be located."

Generally, HRS scoring and the subsequent listing of a release merely represent the initial determination that a certain area may need to be addressed under Comprehensive Environmental Response, Compensation, and Recovery Act (CERCLA). Accordingly, EPA contemplates that the preliminary description of facility boundaries at the time of scoring will be refined as more information is developed as to where the contamination has come to be located.

### Scores

Air Pathway	Not Scored
Ground water Pathway	100.00
Soil Exposure Pathway	Not Scored
Surface Water Pathway	Not Scored

<b>HRS SCORE</b>	<b>50.00</b>
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# WORKSHEET FOR COMPUTING HRS SCORE

	<u>S</u>	<u>S<sup>2</sup></u>
1. Ground water Migration Pathway Score (S <sub>gw</sub> )	<u>100</u>	<u>10,000</u>
2a. Surface Water Overland/Flood Migration Component (from Table 4-1, line 30)	<u>NS</u>	<u>NS</u>
2b. Ground water to Surface Water Migration Component (from Table 4-25, line 28)	<u>NS</u>	<u>NS</u>
2c. Surface Water Migration Pathway Score (S <sub>sw</sub> ) Enter the larger of lines 2a and 2b as the pathway score.	<u>NS</u>	<u>NS</u>
3. Soil Exposure Pathway Score (S <sub>s</sub> ) (from Table 5-1, line 22)	<u>NS</u>	<u>NS</u>
4. Air Migration Pathway Score (S <sub>a</sub> ) (from Table 6-1, line 12)	<u>NS</u>	<u>NS</u>
5. Total of S <sub>gw</sub> <sup>2</sup> + S <sub>sw</sub> <sup>2</sup> + S <sub>s</sub> <sup>2</sup> + S <sub>a</sub> <sup>2</sup>		<u>10,000</u>
6. <b>HRS Score</b> Divide the value on line 5 by 4 and take the square root	<u>50.00</u>	

NS - Not Scored  
Reference 1, Table 3-1

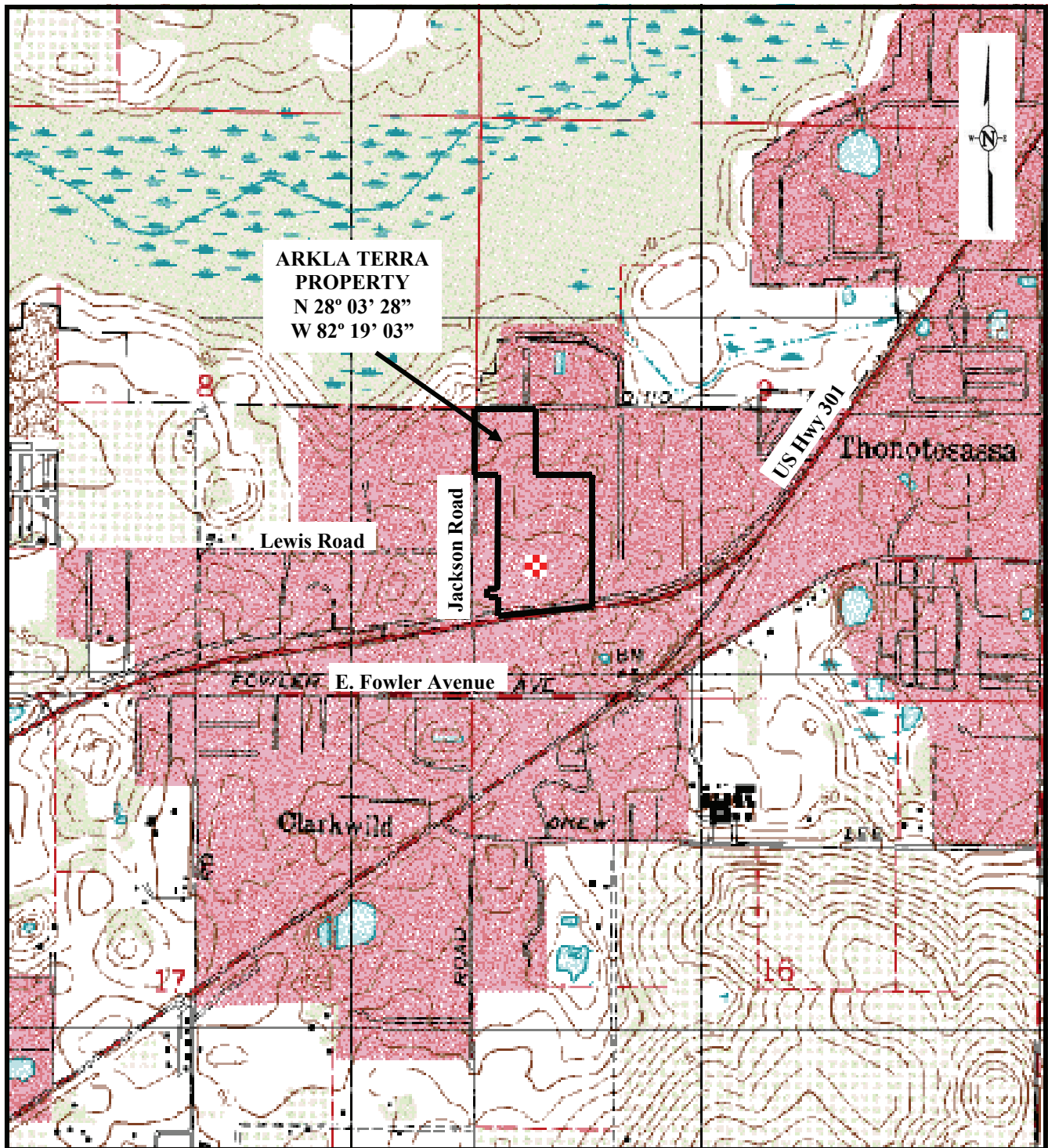
**GROUND WATER MIGRATION PATHWAY SCORESHEET**

Factor Categories and Factors	Maximum Value	Value Assigned
<b>Likelihood of Release to an Aquifer:</b>		
1. Observed Release	550	<u>550</u>
2. Potential to Release:		
2a. Containment	10	<u>      </u>
2b. Net Precipitation	10	<u>      </u>
2c. Depth to Aquifer	5	<u>      </u>
2d. Travel Time	35	<u>      </u>
2e. Potential to Release [lines 2a x (2b + 2c + 2d)]	500	<u>      </u>
3. Likelihood of Release (higher of lines 1 and 2e)	550	<u>550</u>
<b>Waste Characteristics:</b>		
4. Toxicity/Mobility	a	<u>100</u>
5. Hazardous Waste Quantity	a	<u>100</u>
6. Waste Characteristics	100	<u>10</u>
<b>Targets:</b>		
7. Nearest Well	50	<u>50</u>
8. Population:		
8a. Level I Concentrations	b	<u>1,681.7</u>
8b. Level II Concentrations	b	<u>72.79</u>
8c. Potential Contamination	b	<u>82.0</u>
8d. Population (lines 8a + 8b + 8c)	b	<u>1,836.49</u>
9. Resources	5	<u>0</u>
10. Wellhead Protection Area	20	<u>0</u>
11. Targets (lines 7 + 8d + 9 + 10)	b	<u>1,886.49</u>
<b>GROUND WATER MIGRATION SCORE FOR AN AQUIFER</b>		
12. Aquifer Score [(lines 3 x 6 x 11)/82,500] <sup>c</sup>	100	<u>100.00</u>
<b>GROUND WATER MIGRATION PATHWAY SCORE</b>		
13. Pathway Score ( $S_{gw}$ ), (highest value from line 12 for all aquifers evaluated) <sup>c</sup>	100	<u>100.00</u>

<sup>a</sup>Maximum value applies to waste characteristics category.

<sup>b</sup>Maximum value not applicable.

<sup>c</sup>Do not round to nearest integer.



Base Map adapted from USGS topographic map of Thonotosassa, FL (1995). Property boundary adapted from Hillsborough County Property Appraiser's office (2006) - Reference 6 of this HRS documentation record. See also, Reference 7, p. 4 and Reference 15, p. 23 of this HRS documentation record.

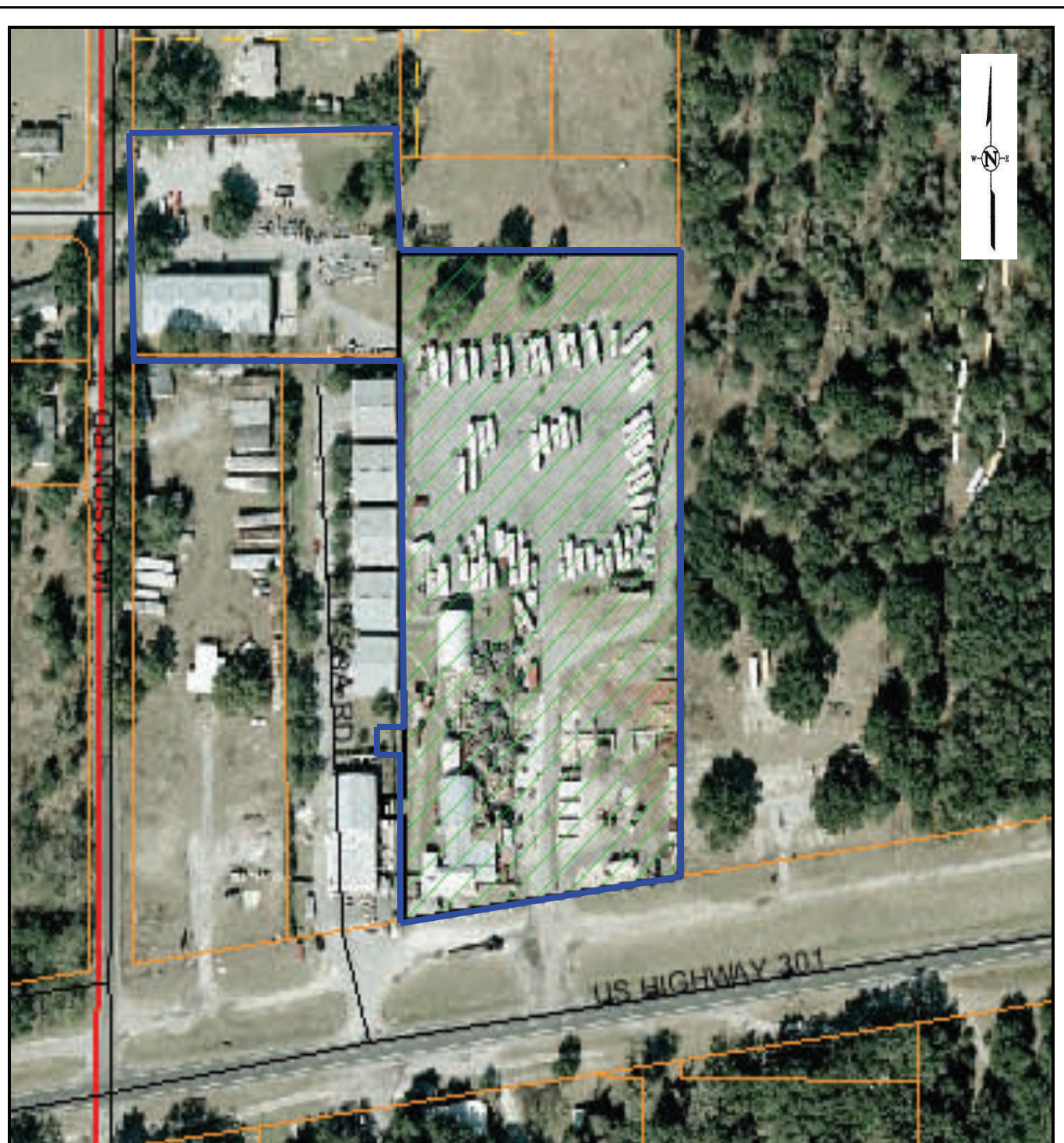
Note: Scale unknown.

**ARKLA TERRA PROPERTY**  
**EPA ID No. FLSFN0406909**  
**THONOTOSASSA,**  
**HILLSBOROUGH COUNTY,**  
**FLORIDA**

**FIGURE 1**  
**PROPERTY LOCATION MAP**

**TN & Associates, Inc.**  
**EPA Region 4 START**

In association with Shaw E & I and Aerostar



— Arkla Terra Property Boundary

Base map modified from Hillsborough County Property Appraiser's office (2006) - Reference 6 of this HRS documentation record. See also, Reference 7, p. 4 and Reference 15, p. 23 of this HRS documentation record.

Note: Scale unknown.

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**FIGURE 2**  
**PROPERTY LAYOUT MAP**

**TN & A T N & Associates, Inc.**  
**EPA Region 4 START**  
In association with Shaw E & I and Aerostar





## LEGEND

AT- Arkla Terra Property

SB- Surface soil sample (0 - 2 feet below ground surface)

GW- Groundwater sample (temporary well)

▲ - Sample Location

— - Arkla Terra Property Boundary

Base map taken from Hillsborough County Property Appraiser office (2006) - Reference 6 of this HRS documentation record. See also, Reference 7, p. 4 and Reference 15, p. 23 of this HRS documentation record. Sample locations derived from the logbook notes of the 2005 Special Studies Investigation conducted by Weston Solutions, Inc. June 22-24, 2005.

Note: Scale unknown.

**ARKLA TERRA PROPERTY**  
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**THONOTOSASSA,**  
**HILLSBOROUGH COUNTY,**  
**FLORIDA**

**FIGURE 3 - SAMPLE LOCATION MAP**

**TN & A** **T N & Associates, Inc.**  
**EPA Region 4 START**

In association with Shaw E & I and Aerostar

## REFERENCES

Ref. No.	<u>Description of the Reference</u>
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2.	EPA. Superfund Chemical Data Matrix. January 2004. 52 pages.
3.	U.S. Geological Survey (USGS). 7.5 Minute series Topographic Quadrangle Maps of Florida: Lutz, 1987; Wesley Chapel, 1987; Sulphur Springs, 1987; Thonotosassa, 1987; Tampa, 1981; Brandon, 1987. Scale 1:24,000.
4.	EPA. Envirofacts Data Warehouse. Subject: Arkla Terra Property. Accessed online at: <a href="http://oaspub/enviro/multisys2.get_list?facility_uin=110009351628">http://oaspub/enviro/multisys2.get_list?facility_uin=110009351628</a> . February 4, 2005. 9 pages.
5.	TN & Associates, Inc. (TN&A), Stacy Kowalski, Project Manager. Project Note to File. Subject: Corporation Information for Arkla Terra, Inc. May 19, 2006. 43 pages.
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7.	EPA, Environmental Services Division. Aerial Photographic Analysis of Arkla Terra Property Site, Hillsborough County, Florida. September 2003. 56 pages.
8.	Florida Department of Environmental Protection (FDEP). Preliminary Assessment Report. Arkla Terra Property, Thonotosassa, Hillsborough County, Florida. EPA ID No. FLSFN0406909. Completion date: January 21, 1999. Submission date: March 2, 1999. 12 pages.
9.	Weston Solutions, Inc. (Weston). Hazard Ranking System Special Study, Site-Specific Sampling Plan. Arkla Terra Property, Thonotosassa, Hillsborough County, Florida. January 25, 2005. 25 pages.
10.	Weston. Hazard Ranking System Special Study Logbook Notes. Arkla Terra Property. June 22-24, 2005. 13 pages.
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12.	State of Florida, Division of Administrative Hearings. Second Amended Notice of Violation and Administrative Complaint. DOAH Case No. 93-1216. DER Case No. 92-906. June 1994. 15 pages.
13.	FDEP. Desktop Site Inspection Report. Arkla Terra Property, Thonotosassa, Hillsborough County, Florida. EPA ID No. FLSFN0406909. February 16, 2000. 12 pages.
14.	FDEP. Work Plan for the Phillips and Arkla Terra Properties Rock Hill Site, Thonotosassa, Hillsborough County, Florida. March 1999. 26 pages.
15.	FDEP. Contamination Assessment Report. Rock Hill Road Site, Thonotosassa, Hillsborough County, Florida. October 2000. 99 pages.
16.	TN&A, Stacy Kowalski, Project Manager. Project Note to File. Subject: June 2005 Special Studies Investigation Analytical Results for the Arkla Terra Property. October 11, 2006. 290 pages.
17.	EPA, Science and Ecosystem Support Division (SESD), Region 4. <i>Environmental Investigations Standard Operating Procedures and Quality Assurance Manual</i> (EISOPQAM). November 2001. 413 pages.



18. Reference removed.
19. Florida Geological Survey (FGS). *Florida's Ground Water Quality Monitoring Program, Hydrogeological Framework*. FGS Special Publication No. 32. 1991. 103 pages.
20. FGS. *Text to Accompany the Geologic Map of Florida*. Open-File Report 80. 2001. 30 pages.
21. FGS. *Geology of Hillsborough County, Florida*. Open-File Report 6. 1984. 21 pages.
22. FGS. *Geologic Map of the State of Florida*. 2001. 1 map.
23. FGS. *Geologic Map of Hillsborough County, Florida*. 1993. 1 map.
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35. U.S. Department of Agriculture (USDA), Natural Resources Conservation Service. Custom Soil Resource Report for Hillsborough County, Florida. Accessed online at <http://websoilsurvey.sc.egov.usda.gov>. 15 pages.
36. U.S. EPA Contract Laboratory Program. Statement of Work for Organics Analysis, Multi-Media, Multi-Concentration, OLM04.2. Accessed online at <http://www.epa.gov/superfund/programs/clp/download/olm/olm42a-d.pdf>. May 1999. Excerpt. 6 pages.
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### General Facility Description and History

The Arkla Terra (AT) Property is located at 11706 U.S. Highway 301 in Thonotosassa, Hillsborough County, Florida (Refs. 3; 4, pp. 1-2; 5, p. 1; 6, pp. 1-2; 7, pp. 1, 4). The property is relatively flat and encompasses approximately 8.26-acres (Refs. 7, p. 4; 8, p. 1; 9, p. 3). AT is located at 28°03'28" north latitude 82°19'03" west longitude, Section 9, Township 28 South, Range 20 East and is situated approximately 45 feet above mean sea level (amsl)(see Figure 1) (Refs. 3; 7, p. 5; 8, p. 1). As of June 2005, the property was comprised of several businesses including a row of office and warehouse space separated by a paved drive from a landscape business (Thonotosassa Materials, Inc.) (Refs. 9, p. 3; 10, pp. 1-2, 5). A fence surrounds the landscape business, which consists of a trailer storefront along the highway and landscaping materials including soil and rocks stockpiled in the back. The businesses located in the office and warehouse complex included MB Accountants, Jamson Environmental, Hardcor Concrete Cutting, Unity Medical Supplies, Jimco Automotive, Neon 2 Go, and Bob's Dusty Stuff (Refs. 9, p. 3; 10, pp. 1-2, 5). The drive is paved to the rear portion of the property, where a number of new recreational vehicles (RV) are stored in a fenced parking lot. The drive then turns to the east, where it is no longer paved and continues for approximately 50 feet where it turns to the north. The unpaved portion of the drive continues past the RV parking lot to the rear of the property, where a residential home is located (Refs. 9, p. 3; 10, p. 5). No information regarding whether the home is inhabited is available. Numerous pallets are stored along the driveway (Refs. 9, p. 3; 10, p. 5). The property is bordered to the west and south by residential areas, and to the east and north by agricultural areas (Ref. 7, pp. 4, 40, 45).

Southeast Oil and Development Corporation (Southeast) began operations as a tank farm supplying gasoline and an underground storage tank (UST) refurbishing facility at the Entrepreneur of Tampa property located at 11511 N. Fowler Ave. (aka. U.S. Highway 301) in Thonotosassa, Florida; however, the company's operations were moved approximately 3,200 feet northeast to 11706 U.S. Highway 301 (the AT property) sometime in 1980 (Refs. 7, p. 4; 12, pp. 1-3). State of Florida Department of Corporations information indicates that there have been two "Southeasts" registered with the Secretary of State. The first Southeast was incorporated on February 20, 1976 and administratively dissolved on November 4, 1988 (Refs. 5, pp. 1, 29, 31; 11, pp. 1-3; 12, p. 2). The second Southeast was incorporated on August 4, 1986 under the name SODC, Inc. (Ref. 12, p. 2). On September 30, 1986, SODC, Inc. purchased the assets of Southeast; however, no documentation is available that indicates which assets were purchased (Ref. 12, p. 2). On March 6, 1990, SODC, Inc. mailed a letter containing a Certificate of Amendment to the Secretary of State to have the company name changed from SODC, Inc. to Southeast Oil and Development Corporation. The Certificate of Amendment was dated June 16, 1987, prior to the administrative dissolution of the first Southeast (Ref. 12, p. 2). The corporate officers of both companies are the same, and the second Southeast (SODC, Inc.) is the successor corporation to the first Southeast (Ref. 12, pp. 2-3).

Through 1975, the AT property was part of a large orchard (Ref. 7, pp. 2, 13, 15). In October 1980, aerial photographs indicate that approximately 40 storage tanks and several possible storage tanks were located on the property. Also during this time, numerous ground scars, mounded materials, and stains were noted (Ref. 7, pp. 20-22). By April 1984, a total of approximately 251 storage tanks, several probable storage tanks, and numerous containers were present on the property (Ref. 7, pp. 26-27). In October 1987, five buildings and an estimated 573 storage tanks and numerous small tanks were noted as well as a trench containing dark-toned material and debris. Staining was observed around many of the tanks and in several areas around the property (Ref. 7, pp. 32-34). In April 1991, an estimated total of 526 storage tanks remained and mounded materials, ground scars, and stained areas were still apparent throughout the property (Ref.

7, pp. 39-40). By February 1995, only approximately 105 storage tanks remained on the property. A probable retention basin was noted near the northwestern side of the property, and staining, debris, and ground scars were still present (Ref. 7, pp. 45-46). In November 1999, approximately 14 storage tanks remained on the property, large quantities of debris and dismantled crates or pallets were present in the north-central portion of the property, and the stains, ground scars, and mounded materials noted in previous photographs remained (Ref. 7, pp. 47-49). The tank washing operations were conducted in the area occupied in 2005 by the landscaping business, gravel central area, the storage area for "electronic" buildings, and the area undergoing development in the northernmost portion of the property (Ref. 9, p. 6).

Several companies have operated at the AT property including: Southeast Oil and Development Corporation (also known as SODC, Inc.) from February 1976 through November 1988; Four Star Petroleum from April 1982 through November 1985; Novadyne Corporation from January 1986 through August 1996; PS Equipment, Inc. from February 1989 through August 1994; and, Arkla Terra, Inc. from February 1993 until at least April 2006 (Ref. 5, pp. 1-15, 29-43). The exact date of closure for Arkla Terra, Inc. is unknown; however, the last Annual Report for the company was filed with the Florida Secretary of State on April 16, 2006 (Ref. 5, p. 5). Previous reports also indicate that Perma Tank, Inc. and Titan Tank, Inc. operated at the property (Refs. 4, p. 4; 14, p. 2; 15, p. 1).

In December 1994, the Site Investigation Section (SIS) of the Florida Department of Environmental Protection (FDEP) conducted a supplemental assessment that concluded that the Entrepreneur of Tampa property, formerly operated by Southeast Oil and Development, was a source of perchloroethene (PCE) and trichloroethene (TCE) contamination in the Floridan aquifer (Ref. 14, p. 1). During the course of this investigation, ground water samples were collected from three supply wells at the Hilltop Mobile Home Park, located approximately 1,000 feet east of and hydrogeologically isolated from the ground water plume, also known as the East Fowler Avenue plume, associated with the Entrepreneur of Tampa property (Ref. 14, pp. 1-2). These three supply wells indicated the presence of PCE. Based on the contamination detected in the wells from this hydrogeologically separate area, SIS contacted the Hillsborough County Public Health Unit (HCPHU) and advised the collection of ground water samples adjacent to the Southeast Oil and Development operation located at 11706 U.S. Highway 301, the AT property (Ref. 14, pp. 1-2).

In March 1999, SIS submitted a Work Plan for the Phillips and Arkla Terra Properties, Rock Hill Site. The purpose of the Work Plan was to outline the previous investigations in the area and to present a plan for determining the source of the PCE ground water contamination (Ref. 14). Also in March 1999, the FDEP Site Screening Superfund Subsection (SSSS) submitted a Preliminary Assessment (PA) Report to the EPA for the AT property (Ref. 8). The desktop PA was conducted to determine the potential for release of hazardous substances to the environment and to assess pathways that may be affected by the operations at the AT property (Ref. 8, p. 1). The PA recommended a high priority Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) action (Ref. 8, p. 9).

In February 2000, FDEP SSSS conducted a Desktop Site Inspection (SI) for the AT property (Ref. 13). The SI consisted of a review of available file material to assess the threat posed to human health and the environment and to determine the need for further CERCLA investigations and, if warranted, support site evaluation using the Hazard Ranking System (HRS) for possible inclusion onto the National Priorities List (NPL). The SI recommended a high priority Expanded Site Investigation (ESI) (Ref. 13, pp. 1, 9).

In October 2000, FDEP SIS submitted a Contamination Assessment Report (CAR) for



the Rock Hill Road Site (Rock Hill is generally situated around the intersection of U.S. Highway 301 and Jackson Road and is north of East Fowler Avenue and south of Lewis Road), which included an investigation of the soils at the AT property as well as eight other properties in the vicinity of Rock Hill Road (Ref. 15, pp. 1-5). During the CAR, 78 soil-gas samples were collected from the AT property and analyzed by a mobile laboratory for volatile organic compounds (VOC). Of the 78 soil-gas samples collected, 23 revealed detectable levels of PCE ranging from 0.5 micrograms per Liter (ug/L) to 403.3 ug/L (Ref. 15, pp. 65-73). Additionally, 26 subsurface soil samples at 10 locations and one ground water sample were collected from the AT property and analyzed by FDEP's central laboratory. Subsurface soil samples revealed detectable levels of PCE ranging from 2.9I micrograms per kilogram (ug/kg) to 320 ug/kg. The ground water sample revealed 8.6 ug/L of PCE (Ref. 15, p. 70). No background samples were designated in the CAR; however, several samples indicated non-detect (Ref. 15, pp. 36-73). Five potable well ground water sampling events were conducted at the Rock Hill Site, which indicated that the AT property was a likely source of the PCE ground water contamination (Ref. 14, pp. 4, 7, 10, 14; 15, pp. 16-17). The potable well ground water sampling results are as follows:

- In February 1995, HCPHU collected nine ground water samples from potable wells adjacent to Rock Hill Road, Jackson Road, East Fowler Avenue, Ohio Road, and U.S. Highway 301. The results indicated that four wells exceeded the Florida Primary Drinking Water Standards (FPDWS) for PCE of 3 ug/L and the Federal Maximum Contaminant Limit (MCL) of 5 ug/L with concentrations ranging from 12 to 180 ug/L (Refs. 2, p. BII-11; 14, p. 4; 15, pp. 1, 36-55).
- Between April 4, 1995 and July 1, 1995, SIS and HCPHU sampled 215 potable wells. Of the 215 wells sampled, 117 were reported to contain detectable levels of PCE with 78 exceeding the FPDWS. Spatially, the contamination extended from north of Rock Hill Road to approximately 3,500 feet south of the intersection of Skewlee and Timmons Roads. The highest concentrations of PCE were located adjacent to the intersection of U.S. Highway 301 and Jackson Road (Ref. 14, pp. 4-6). Based on the results of the private well sampling, FDEP provided for the installation of commercial water treatment systems to remove VOC and other contaminants from PCE-contaminated wells and provided approximately \$1,000,000 to Hillsborough County to extend municipal water lines into the affected areas in order to connect the affected residents to the municipal water supply (Refs. 14, pp. 4-6; 15, pp. 2, 34, 36-55).
- On August 22, 1995, SIS installed five shallow wells (RHS-1 through RHS-5) to a depth of 40 feet below land surface (bls), and one deep well (RHF-1). No VOC were detected in any of the newly installed wells (Refs. 14, pp. 4, 7-8; 15, pp. 5-6, 14-16).
- In March 1996, SIS conducted additional investigations at three residential properties, the Smith, Thornton, and Brice properties that contained solid waste piles, junk cars, and debris from illegal dumping; the Lester property that conducted mobile home sales and service; and the O'Neil property that conducted auto repair (Ref. 14, pp. 7, 9). Direct-push technology was utilized to collect shallow ground water samples and electric conductivity data to determine lithologic profiles. Soil and soil-gas samples were also collected and designated as PP-1 through PP-17. All samples were analyzed with a gas chromatograph (GC) and no samples revealed significant VOC contamination (Refs. 14, pp. 7, 9; 15, pp. 6-7, 13-14).
- On April 3, 1996, SIS initiated an investigation of Floridan aquifer

contamination at the Rock Hill Site. SIS installed 10 deep monitoring wells (RHF-2, RHF-3, RHF-6 through RHF-13) in the area to determine ground water flow direction, ground water gradient, and ground water quality. Analytical results indicated PCE concentrations ranging from 0 to 200 ug/L in the newly installed wells (Refs. 14, pp. 7, 10-14; 15, pp. 8-9, 14-16).

The CAR concluded that a large area of the Floridan aquifer was contaminated with PCE. The plume was determined to extend over 7,500 feet southwest from the intersection of U.S. Highway 301 and Jackson Road to near the intersection of Tom Fulsom and Joe Eberts Roads. The CAR concluded that the contaminated soils and approximately 25,000 square feet of PCE-contaminated soil-gas within the vadose zone on the AT property was a source of the PCE ground water plume (Ref. 15, p. 16).

In January 2005, Weston Solutions, Inc., (Weston) Superfund Technical Assistance and Response Team-2000 (START-2) submitted a Site-Specific Sampling Plan to the EPA for an HRS Special Study Investigation (SSI) of the AT property (Ref. 9). The sampling activities at the AT property were conducted in June 2005 (Refs. 9, pp. 1-2; 10, pp. 1-2). The sampling investigation was conducted as an HRS Special Study that focused on the collection of soil and ground water samples to fill data gaps associated with the source characterization (Refs. 9, pp. 1-2; 10, p. 2). Due to earth-moving activities on the property at the time of the sampling, and the length of time since AT operated at the property, surface soil samples were collected beneath the surface from depths ranging from 0 to 2 feet bls (Ref. 10, pp. 7-11). The sampling results indicated elevated levels of PCE in the soil samples collected from at the AT property, with concentrations ranging from 10U ug/kg to 88 ug/kg. Additionally, an on-site temporary ground water well indicated an elevated level of PCE at 23 ug/L (Ref. 16, pp. 3, 6-9, 10, 14, 28, 30-36, 38, 40).

## 2.2 SOURCE CHARACTERIZATION

Number of the source: 1

Name and description of the source: Contaminated soil

HRS Source Type: Contaminated soil

In June 1994, FDEP issued a Notice of Violation (NOV) to SODC, Inc. located at 11706 U.S. Highway 301 N. for the contamination of ground water related to site activities (Ref. 12, pp. 1, 3-5, 15). The NOV states that monitoring well samples in 1990 and 1991 revealed the presence of PCE in ground water beneath the property and concluded that the solvent contamination was the result of the tank refurbishing activities at the property (Ref. 12, pp. 5-6). Count III of the NOV states that the solvent-contaminated soils and ground water at the property are continuing to degrade the water quality in nearby areas (Ref. 12, p. 8).

In October 2000, FDEP SIS presented the results of a CAR in which 78 soil-gas samples were collected from the AT property and analyzed by a mobile laboratory for VOC. Of the 78 soil-gas samples collected, 23 revealed detectable levels of PCE ranging from 0.5 ug/L to 403.3 ug/L (Ref. 15, pp. 65-73). Additionally, 26 subsurface soil samples from 10 locations and one ground water sample were collected from the AT property. Subsurface soil samples revealed detectable levels of PCE ranging from 2.9I ug/kg to 320 ug/kg. The ground water sample revealed 8.6 ug/L of PCE (Ref. 15, pp. 36-73). No background samples were designated in the CAR; however, several samples indicated non-detect (Ref. 15, pp. 65-73).

On June 22-24, 2005, Weston START-2 conducted an SSI at the AT property (Refs. 9; 10, pp. 1-12). The primary objective of the SSI was to collect soil and ground water samples from the property to determine if the AT property could be the source of the PCE ground water contamination in the area (Ref. 9, p. 8). Due to earth moving activities and the length of time since AT operated at the property, surface soil samples were collected beneath the surface at depths ranging from 0 to 2 feet bls during the SSI (Refs. 9, p. 8; 10, pp. 7-12). Weston START-2 personnel collected 10 surface soil samples and one duplicate surface soil sample, and two ground water samples including one duplicate ground water sample from the property (Refs. 10, pp. 1-12; 16, pp. 3, 6-9). PCE was detected at elevated concentrations in several subsurface soil samples at concentrations ranging from 10U ug/kg to 88 ug/kg (Ref. 16, pp. 3, 6-9, 10, 14, 28, 30-36, 38, 40).

Location of the source, with reference to a map of the facility:

Contaminated soil is located along the driveway located near the center of the AT property (See Figure 3 of this Documentation Record for sample locations).

Containment:

Release to ground water: Contaminated soil located at the facility is not lined. No natural or man-made liner was encountered during the subsurface soil sampling activities at the property (Ref. 10, pp. 1-12; 15, pp. 8-9, 13-14, 16-17). PCE-contaminated ground water has been identified in several private wells located downgradient of the AT property (Refs. 12, p. 4; 15, pp. 11-13, 15-16, 34, 36-80).

Based on Table 3-2 of Reference 1, the contaminated soil yields a containment value of 10.

**Ground water Containment Value: 10**

Reference: 1, Section 3.1.2.1, Table 3-2

## 2.4 Waste Characteristics

### 2.4.1 Hazardous Substances

#### - 2005 Special Studies Investigation

The surface soil samples listed below were collected during the June 2005 SSI sampling event conducted by Weston START-2 on behalf of EPA (Ref. 10, pp. 1-12). All surface soil samples were collected from 0 to 2 feet bls according to the EPA Region 4 Science and Ecosystem Support Division (SESD) *Environmental Investigations Standard Operating Procedures and Quality Assurance Manual* (EISOPQAM)(Refs. 10, pp. 2, 7-12; 17). The background surface soil sample (AT-10-SB) was collected upgradient of the property from an area believed to be unimpacted by facility operations (Ref. 10, pp. 9-10). All soil samples were composed of similar soil type (Ref. 35, pp. 7-9, 11-13). See Figure 3 of this Documentation Record for sample locations.

All samples collected during the 2005 SSI field sampling event were analyzed by an EPA Contract Laboratory Program (CLP) laboratory (Refs. 9, p. 8; 16, pp. 1-9). Surface soil samples were analyzed for EPA Target Compound List (TCL) VOCs, extractable semivolatile organic compounds (SVOCs), pesticides, polychlorinated biphenyls (PCBs), and Target Analyze List (TAL) metals and cyanide (Ref. 16, pp. 1-9). Data validation was performed by EPA Region 4 SEDS personnel (Ref. 16, pp. 101-111). Analytical data sheets and Quality Assurance/Quality Control (QA/QC) information are presented in Reference 16. Contract Required Quantitation Limits (CRQLs) are used in lieu of Sample Quantitation Limits (SQLs) and are provided in Reference 36.

Sample ID/Lab ID	Hazardous Substance	Hazardous Substance Concentration (ug/kg)	Background Concentration (AT-10-SB) (ug/kg)	CRQL (ug/kg)	References
AT-02-SB/3757	PCE	28	11U	10	10, pp. 7, 9-11; 16, pp. 3, 9, 28, 40, 158; 36, p. 3
AT-03-SB/3758	PCE	51	11U	10	10, pp. 8-11; 16, pp. 3, 9, 30, 40, 155; 36, p. 3
AT-04-SB/3759	PCE	88	11U	10	10, pp. 8-11; 16, pp. 3, 9, 31, 40, 151; 36, p. 3
AT-06-SB/3761	PCE	58	11U	10	10, pp. 9-11; 16, pp. 6, 9, 33, 40, 146; 36, p. 3
AT-06D-SB/3765	PCE	62	11U	10	10, pp. 9-11; 16, pp. 7, 9, 34, 40, 134; 36,



Sample ID/Lab ID	Hazardous Substance	Hazardous Substance Concentration (ug/kg)	Background Concentration (AT-10-SB) (ug/kg)	CRQL (ug/kg)	References
					p. 3
AT-08- SB/3763	PCE	45	11U	10	10, pp. 9-11; 16, pp. 7, 9, 36, 40, 139; 36, p. 3

Notes:

CRQL - Contract Required Quantitation Limit  
ug/kg - Micrograms per kilogram  
U - Analyte not detected at or above reporting limit  
D - Duplicate sample  
AT - Arkla Terra  
SB - Surface soil sample (soil boring)  
PCE - Tetrachloroethene (tetrachloroethylene)

## **2.4.2 Hazardous Waste Quantity**

### **2.4.2.1.1 Hazardous Constituent Quantity**

Insufficient data is available to calculate the hazardous constituent quantity.

Hazardous Constituent Quantity Value (S): Not Scored

### **2.4.2.1.2 Hazardous Wastestream Quantity**

Insufficient data is available to calculate the hazardous wastestream quantity.

Hazardous Wastestream Quantity Value (W): Not Scored

### **2.4.2.1.3 Volume**

Insufficient data is available to calculate the volume.

Volume Value (V): 0

### **2.4.2.1.4 Area**

The area of contamination is a line formed by sampling locations AT-03-SB, AT-04-SB, AT-06-SB, and AT-08-SB collected during the 2005 SSI (Ref. 10, pp. 1-12). Because of earth-moving activities and physical barriers to sample collection (piles of landscaping materials stored on the ground surface), all samples collected during the SSI were collected in a line along the driveway located in the approximate center of the property (see Figure 3 of this Documentation Record) (Ref. 10, pp. i, 1-2, 7-12). It is unclear whether the contamination is continuous throughout the source area; therefore, the area of observed contamination was determined to be >0 square feet (ft<sup>2</sup>).

Equation for hazardous waste quantity evaluation for the contaminated soil is  $A/34,000$ . Therefore,  $>0 \text{ ft}^2 / 34,000 = >0$

Area Assigned Value: >0  
Reference: 1, Table 2-5

### **2.4.2.1.5 Source Hazardous Waste Quantity Value**

Source Hazardous Waste Quantity Value: >0  
Reference: 1, Section 2.4.2.2

## SUMMARY OF SOURCE DESCRIPTIONS

Source No.	Source Hazardous Waste Quantity Value	Containment				
		Ground water	Surface Water	Soi l	Air	
					Gas	Particulate
1	>0	10	NS	NS	NS	
SUM	>0					

Notes:

NS- Not Scored

Reference: 1, Section 2.4.2.2, Table 2-6

### 3.0 Ground Water MIGRATION PATHWAY

#### 3.0.1 GENERAL CONSIDERATIONS

##### Ground Water Migration Pathway Description

The AT property is located on the Florida Platform, which is comprised of a thick sequence of primarily carbonate rocks capped by a thin siliclastic sediment sequence (Refs. 19, p. 5; 20, p. 1). The property is located in the Gulf Coastal Lowlands geomorphologic area of northeastern Hillsborough County, approximately 16 miles northeast of Tampa, Florida (Refs. 3; 19, p. 26). The topography of Hillsborough County is flat and low-lying with elevations ranging from 25-feet amsl to 130-feet amsl and the property is located at approximately 25-feet amsl (Refs. 3; 21, p. 1). The property is underlain in descending stratigraphic order by unconsolidated sediments; the Tampa Member of the Arcadia Formation of the Hawthorn Group, the Suwannee Limestone, the Ocala Group, and the Avon Park Formation (Refs. 15, pp. 11, 81-93; 19, p. 20; 20, pp. 10-12, 15; 21, pp. 3-4, 6, 18-19; 22; 23; 24, p. 71).

The Pliocene to Holocene age unconsolidated sediments are comprised of interbedded sands and clays that are approximately 40 to 60 feet thick with the clay percentage increasing with depth (Ref. 15, p. 12). The Tampa Member of the Arcadia Formation of the Hawthorn Group directly underlies the unconsolidated sediments at the property, is white to tan to yellowish-gray in color and consists predominantly of limestone with subordinate dolostone, quartz sands, and clays (Refs. 15, p. 12; 20, pp. 13-14; 21, pp. 5-6; 23; 24, pp. 70-71). The lower boundary of the Tampa Member is gradational with the underlying Suwannee Limestone and the boundary is described in literature as the point at which the quartz content is less than 5 percent (Ref. 21, pp. 6-7). The Tampa generally dips toward the south in the northern area of occurrence, thickening in the downdip direction (Refs. 21, p. 7; 24, p. 70). The Tampa Member is quite variable in thickness throughout its extent; however, in the northern portion of Hillsborough County, where the AT property is located, the Tampa is approximately 25 feet thick (Refs. 3; 21, p. 7; 24, p. 72).

The Suwannee Limestone underlies the Tampa Member in the vicinity of the property and is divided into three lithologic units (Refs. 21, p. 4; 24, p. 70). The uppermost unit is a pale yellow, finely crystalline limestone containing minor amounts of fine quartz sand (Ref. 21, p. 5). Carbonate grains present in the upper unit range from fine- to coarse-grained and consist primarily of foraminifera and mollusk fragments (Refs. 20, p. 12; 21, p. 5). Portions of the upper unit are recrystallized; however, it is more commonly chalky with low to moderate intergranular porosity (Refs. 20, p. 12; 21, p. 5). The middle unit of the Suwannee is a cream to yellow skeletal limestone comprised almost entirely of medium to coarse sized skeletal fragments of foraminifera and mollusk (Refs. 20, p. 12; 21, p. 5). The middle unit is highly recrystallized and exhibits good intergranular and vugular porosity (Refs. 20, p. 12; 21, pp. 4-5). The lowermost unit is a fossiliferous yellowish-gray microcrystalline limestone containing minor amounts of peat, pyrite, and clay (Ref. 21, p. 4). The limestone is chalky with low intergranular porosity (Ref. 21, p. 4). The Suwannee dips toward the south-southwest and thickens toward the southwest (Ref. 21, p. 5). Within Hillsborough County, the Suwannee ranges in thickness from 100-feet in the northern portion of the County to greater than 300-feet in the south (Ref. 21, p. 5).

The Ocala Group underlies the Suwannee Limestone in the area and consists of nearly pure limestones and occasional dolostones (Refs. 19, p. 20; 20, p. 11). The Ocala is subdivided into an upper and lower portion based on lithology (Refs. 19, p. 7; 20, p. 11). The upper Ocala is a white, poorly to well indurated,



poorly sorted, very fossiliferous unit composed of variably muddy, granular limestone. The unit is often very soft and friable with numerous large foraminifera (Refs. 19, p. 7; 20, p. 11). The lower member is composed of a white to cream-colored, fine to medium grained, poorly to moderately indurated, very fossiliferous limestone; however, the lower portion may not be present throughout the areal extent of occurrence and may be partially to completely dolomitized in some regions (Refs. 19, p. 7; 20, p. 11).

The Avon Park underlies the Ocala and consists of cream to light-brown or tan, poorly indurated to well indurated, variably fossiliferous limestone (Ref. 20, p. 10). The Avon Park limestones are interbedded with tan to brown very poorly indurated to well indurated, very fine to medium crystalline, fossiliferous, vuggy dolostones (Ref. 20, p. 10).

A surficial aquifer is present at the property and is comprised of the permeable sections contained within the unconsolidated sediments (Ref. 15, p. 12). Where present, the unconsolidated sediments range in thickness from 40 to 60 feet thick (Ref. 15, p. 11). The Tampa Member of the Arcadia Formation of the Hawthorn Group forms the upper semi-confining layer of the underlying Floridan aquifer; however, the thickness of this layer is approximately 25 feet beneath the property and the unit is irregularly eroded (Refs. 19, pp. 8, 9, 20, 81; 21, pp. 6-7; 26).

The Floridan aquifer is composed of the Suwannee and Ocala Limestones and ranges in thickness from 1,000 to 1,200 feet thick in the area (Refs. 19, pp. 7, 12, 74). Based on geologic information obtained during the CAR, the top of the Floridan aquifer is present between 19 to 32 feet below ground surface at the property (Ref. 15, p. 12). The Floridan is confined to poorly confined throughout much of the State of Florida (Ref. 26). The aquifer is known as the principal artesian aquifer and is one of the most productive aquifers in the world (Refs. 19, pp. 7, 12; 25, p. 8). The aquifer is the primary source of potable water in the area and is the hydrogeologic unit into which the majority of potable wells at the site are completed (Ref. 15, p. 12). The potentiometric surface of the aquifer in May 2000 was approximately 20-feet amsl (Ref. 26). Based on water level measurements from wells installed during the October 2000 CAR, potentiometric maps indicate that the ground water flow direction in the Floridan aquifer is toward the west southwest at the property (Ref. 15, pp. 32-33). The coastal lowlands area of northwestern Hillsborough County is riddled with sinkholes due to the absence or thinning of the clayey residuum of the Hawthorn Group (Ref. 21, pp. 3-4). The aquifer is recharged through the infiltration of rainfall, discharge from surface water, and discharge from sinkholes (Ref. 25, p. 7). The base of the Floridan aquifer is a subregional confining unit composed of the Avon Park Formation (Refs. 19, p. 12; 20, p. 10).

### **3.1 LIKELIHOOD OF RELEASE**

#### **3.1.1 OBSERVED RELEASE**

Aquifer Being Evaluated: Floridan Aquifer

##### **Direct Observation**

An observed release by direct observation has not been documented.

## Chemical Analysis

### Monitoring Well Samples

#### - 2005 SSI Sampling Investigation

#### Contaminated Samples

Temporary monitoring wells were installed, as per the November 2001 EPA Region 4 EISOPQAM, on the AT property during the 2005 SSI field sampling event conducted by Weston (Refs. 9, pp. 1-22; 10, pp. 1-12; 17). Ground water samples collected from the temporary monitoring wells located on the AT property contained elevated concentrations of PCE (Refs. 10, pp. 2-5, 10; 16, pp. 8, 14). See Figure 3 of this Documentation Record for temporary monitoring well locations.

The analytical citations for the ground water samples listed below are from the 2005 SSI field sampling event (Ref. 10). The concentrations detected in the ground water samples were compared to the background sample AT-10-GW located on the north end of the property, in an upgradient location of ground water flow at the property (Ref. 10, pp. 2-3, 10). See Figure 3 of this Documentation Record for temporary monitoring well locations. Analytical data sheets and QA/QC information are presented in Reference 16.

Sample ID	Total Depth <sup>a</sup> (feet)	Depth to Water (feet)	Sample Location	Date Sampled	References
AT-10-GW	32	22.2	Background, north and upgradient	6/23/05	10, pp. 2-3, 10
AT-02-GW	35.6	24.6	Center of property, east of paved drive.	6/24/05	10, pp. 4-5, 10

Notes:

<sup>a</sup> Total depth, depth to water, and screened interval measured from ground surface

The ground water sample listed below was collected during the 2005 SSI field sampling event conducted by Weston on behalf of EPA (Refs. 10, pp. 3-5, 10; 16, pp. 8, 14). The background ground water sample (AT-10-GW) was collected upgradient and in an area believed to be unimpacted by facility operations (Ref. 10, pp. 2-3, 10; 16, pp. 8, 10). See Figure 3 of this Documentation Record for sample locations.

All samples collected during the Weston 2005 integrated HRS field sampling event were analyzed by an EPA CLP laboratory (Refs. 9, p. 8; 16, pp. 1-9). The samples were analyzed for EPA TCL VOCs, extractable SVOCs, pesticides, PCBs, and TAL metals and cyanide (Ref. 16, pp. 1-111). Data validation was performed by EPA Region 4 SESD personnel (Refs. 9, p. 8; 16, pp. 101-111). Analytical data sheets and QA/QC information are presented in Reference 16. CRQLs were used in lieu of SQLs and are provided in Reference 36.

Sample ID	Hazardous Substance	Concentration (ug/L)	Background (AT-10-GW) (ug/L)	CRQL (ug/L)	References
AT-02-GW	PCE	23	10U	10	10, pp. 2-5, 10; 16, pp. 8, 10, 14; 36, p. 3

Notes:

ug/L - Micrograms per liter

AT - Arkla Terra Property  
 GW - Ground water  
 U - Analyte not detected at or above reporting limit  
 PCE - Tetrachloroethene/tetrachloroethylene

**Private Well Samples**

Approximately 197 private wells and 114 community wells are located within 4 radial miles of the AT property (Refs. 3; 13, p. 7; 15, pp. 19-80; 28, pp. 1-3). Ground water samples collected from several of the private wells in the area indicated elevated concentrations of PCE (Refs. 27, pp. 1-1196; 28, pp. 1-3). All of the private wells used to document the observed release of PCE are located hydrologically downgradient, to the west southwest, of the AT property (Refs. 15, pp. 32-33; 28, pp. 1-3). See Reference 28 of this Documentation Record for private well sample locations.

The analytical citations for the ground water samples listed below are from sampling events conducted by the Florida Department of Health (FDoH) from 1989 through 2005 (Ref. 27, p. 1). No background samples were collected during the investigations; however, several private wells that were sampled indicated non-detectable levels of PCE as demonstrated in the table below (Ref. 27, pp. 1197-1317). The concentrations detected in the private well ground water samples were compared to a background level of zero because PCE is a non-ubiquitous manmade substance, and contamination of land, air, surface water, and ground water are primarily a result of industrial spillage during manufacture or use (Refs. 27, pp. 1197-1317; 29, p. 9). All samples collected during the private well sampling events were analyzed for VOCs by the FDoH laboratory (Ref. 27, pp. 1-1317). Data validation was performed by the FDoH laboratory (Ref. 27, pp. 1-1317). Analytical data sheets and QA/QC information are presented in Reference 27. Neither the Practical Quantitation Limits (PQL) nor the SQL were provided in Reference 27; therefore, the Method Detection Limit (MDL) was used in lieu of the PQL or SQL (Ref. 37, p. 2).

**Non-Detect Wells in the Vicinity of Arkla Terra**

Sample ID	Date Collected	Hazardous Substance	Concentration (ug/L)	MDL (ug/L)	References
26593	6/16/95	PCE	0.070 U	0.14	27, pp. 1197-1198; 37, p. 2
51619	6/14/96	PCE	0.070 U	0.14	27, pp. 1199-1200; 37, p. 2
51618	6/14/96	PCE	0.070 U	0.14	27, pp. 1201-1202; 37, p. 2
53170	7/8/96	PCE	0.070 U	0.14	27, pp. 1203-1204; 37, p. 2
53499	7/12/96	PCE	0.070 U	0.14	27, pp. 1205-1206; 37, p. 2
55527	8/9/96	PCE	0.070 U	0.14	27, pp. 1207-1208; 37, p. 2
81694	7/8/97	PCE	0.23 U	0.14	27, pp. 1213-1214; 37, p. 2
81693	7/8/97	PCE	0.23 U	0.14	27, pp. 1215-1216; 37, p. 2
82087	7/15/97	PCE	0.23 U	0.14	27, pp. 1211-1212; 37, p. 2
82745	7/23/97	PCE	0.23 U	0.14	27, pp. 1209-1210; 37, p. 2
99261	4/10/98	PCE	0.23 U	0.14	27, pp. 1217-

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					1218; 37, p. 2
102227	5/21/98	PCE	0.23 U	0.14	27, p. 1219; 37, p. 2
102224	5/21/98	PCE	0.23 U	0.14	27, p. 1221; 37, p. 2
102221	5/21/98	PCE	0.23 U	0.14	27, p. 1223; 37, p. 2
104922	7/7/98	PCE	0.23 U	0.14	27, pp. 1225- 1226; 37, p. 2
105442	7/16/98	PCE	0.20 U	0.14	27, pp. 1227- 1228; 37, p. 2
105441	7/16/98	PCE	0.20 U	0.14	27, pp. 1229- 1230; 37, p. 2
105600	7/20/98	PCE	0.20 U	0.14	27, pp. 1231- 1232; 37, p. 2
105599	7/20/98	PCE	0.20 U	0.14	27, pp. 1233- 1234; 37, p. 2
105597	7/20/98	PCE	0.20 U	0.14	27, pp. 1235- 1236; 37, p. 2
108646	9/1/98	PCE	0.20 U	0.14	27, pp. 1237- 1238; 37, p. 2
108644	9/1/98	PCE	0.20 U	0.14	27, pp. 1239- 1240; 37, p. 2
124958	6/2/99	PCE	0.20 U	0.14	27, pp. 1241- 1242; 37, p. 2
157869	12/4/00	PCE	0.20 U	0.14	27, pp. 1245- 1246; 37, p. 2
157871	12/4/00	PCE	0.20 U	0.14	27, pp. 1247- 1248; 37, p. 2
158151	12/11/00	PCE	0.20 U	0.14	27, pp. 1243- 1244; 37, p. 2
161249	2/19/01	PCE	0.20 U	0.14	27, pp. 1277- 1278; 37, p. 2
167036	5/29/01	PCE	0.20 U	0.14	27, pp. 1269- 1270; 37, p. 2
167037	5/29/01	PCE	0.20 U	0.14	27, pp. 1271- 1272; 37, p. 2
167050	5/30/01	PCE	0.20 U	0.14	27, pp. 1273- 1274; 37, p. 2
167051	5/30/01	PCE	0.20 U	0.14	27, pp. 1275- 1276; 37, p. 2
168426	6/26/01	PCE	0.20 U	0.14	27, pp. 1263- 1264; 37, p. 2
168428	6/26/01	PCE	0.15 U	0.14	27, pp. 1265- 1266; 37, p. 2
168429	6/26/01	PCE	0.15 U	0.14	27, pp. 1267- 1268; 37, p. 2
171161	9/5/01	PCE	0.15 U	0.14	27, pp. 1249- 1250; 37, p. 2
171162	9/5/01	PCE	0.15 U	0.14	27, pp. 1251- 1253; 37, p. 2
171163	9/5/01	PCE	0.15 U	0.14	27, 1254-1256; 37, p. 2
171164	9/5/01	PCE	0.15 U	0.14	27, pp. 1257- 1259; 37, p. 2
171166	9/5/01	PCE	0.15 U	0.14	27, pp. 1260- 1262; 37, p. 2



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183174	4/30/02	PCE	0.15 U	0.14	27, pp. 1287-1288; 37, p. 2
186584	7/9/02	PCE	0.15 U	0.14	27, pp. 1285-1286; 37, p. 2
187922	7/30/02	PCE	0.15 U	0.14	27, pp. 1282-1284; 37, p. 2
195553	12/19/02	PCE	0.15 U	0.14	27, pp. 1279-1281; 37, p. 2
196357	1/15/03	PCE	0.15 U	0.14	27, pp. 1301-1303; 37, p. 2
196364	1/15/03	PCE	0.15 U	0.14	27, pp. 1304-1306; 37, p. 2
199327	3/11/03	PCE	0.30 U	0.14	27, pp. 1295-1297; 37, p. 2
199333	3/11/03	PCE	0.30 U	0.14	27, pp. 1298-1300; 37, p. 2
200153	3/18/03	PCE	0.30 U	0.14	27, pp. 1293-1294; 37, p. 2
202170	4/29/03	PCE	0.30 U	0.14	27, pp. 1291-1292; 37, p. 2
213293	12/2/03	PCE	0.30 U	0.14	27, pp. 1289-1290; 37, p. 2
218119	3/5/04	PCE	0.30 U	0.14	27, pp. 1312-1313; 37, p. 2
221311	4/22/04	PCE	0.30 U	0.14	27, pp. 1309-1311; 37, p. 2
227496	8/20/04	PCE	0.26 U	0.14	27, pp. 1307-1308; 37, p. 2
234048	12/28/04	PCE	0.26 U	0.14	27, pp. 1314-1315; 37, p. 2
234160	12/29/04	PCE	0.26 U	0.14	27, pp. 1316-1317; 37, p. 2

Notes: ug/L                    - Micrograms per Liter  
           U                      - Constituent analyzed for but not detected  
           PCE                  - Tetrachloroethylene  
           MDL                 - Method Detection Limit

1989 Private Well Samples

Sample ID	Date Collected	Hazardous Substance	Concentration (ug/L)	MDL (ug/L)	CRSC (ug/L)	References
89050262	5/2/89	PCE	7.2	0.14	1.6	2, p. BII-11; 27, pp. 1, 2-4; 28, p. 3; 37, p. 2
89060011	5/31/89	PCE	32	0.14	1.6	2, p. BII-11; 27, pp. 1, 5-7; 28, p. 3; 37, p. 2
89060012	5/31/89	PCE	6	0.14	1.6	2, p. BII-11; 27, pp. 1, 8-10; 28, p. 3; 37, p. 2
89061595	6/27/89	PCE	37	0.14	1.6	2, p. BII-11; 27, pp. 1, 11-13; 28, p. 3; 37, p. 2
89061596	6/27/89	PCE	16	0.14	1.6	2, p. BII-11; 27, pp. 1, 14-16; 28, p. 3; 37, p. 2
89061597	6/27/89	PCE	4.7	0.14	1.6	2, p. BII-11; 27, pp. 1, 17-19; 28, p. 3; 37, p. 2

Notes: ug/L - Micrograms per Liter  
PCE - Tetrachloroethylene  
CRSC - Cancer Risk Screening Concentration  
MDL - Method Detection Limit

1990 Private Well Samples

Sample ID	Date Collected	Hazardous Substance	Concentration (ug/L)	MDL (ug/L)	CRSC (ug/L)	References
90021114	2/12/90	PCE	3.9	0.14	1.6	2, p. BII-11; 27, pp. 1, 32-34; 28, p. 3; 37, p. 2
90021018	2/13/90	PCE	8.9	0.14	1.6	2, p. BII-11; 27, pp. 1, 23-25; 28, p. 3; 37, p. 2
90021040	2/13/90	PCE	6	0.14	1.6	2, p. BII-11; 27, pp. 1, 26-28; 28, p. 3; 37, p. 2
90020143	2/13/90	PCE	5.1	0.14	1.6	2, p. BII-11; 27, pp. 1, 29-31; 28, p. 3; 37, p. 2
90070203	7/5/90	PCE	91	0.14	1.6	2, p. BII-11; 27, pp. 1, 35-37; 28, p. 3; 37, p. 2

Notes: ug/L - Micrograms per Liter  
PCE - Tetrachloroethylene  
CRSC - Cancer Risk Screening Concentration  
MDL - Method Detection Limit

1995 Private Well Samples

Sample ID	Date Collected	Hazardous Substance	Concentration (ug/L)	MDL (ug/L)	CRSC (ug/L)	References
17154	2/9/95	PCE	12	0.14	1.6	2, p. BII-11; 27, pp. 1, 44-45; 28, p. 3; 37, p. 2
17151	2/9/95	PCE	180	0.14	1.6	2, p. BII-11; 27, pp. 1, 46-47; 28, p. 3; 37, p. 2
29058	8/9/95	PCE	120	0.14	1.6	2, p. BII-11; 27, pp. 1, 60-61; 28, p. 3; 37, p. 2
30195	8/29/95	PCE	4.7	0.14	1.6	2, p. BII-11; 27, pp. 67-68; 28, p. 3; 37, p. 2
30192	8/29/95	PCE	5.2	0.14	1.6	2, p. BII-11; 27, pp. 1, 69-70; 28, p. 3; 37, p. 2
30187	8/29/95	PCE	3.5	0.14	1.6	2, p. BII-11; 27, pp. 1, 71-72; 28, p. 3; 37, p. 2
33877	10/23/95	PCE	98	0.14	1.6	2, p. BII-11; 27, pp. 1, 76-77; 28, p. 3; 37, p. 2
33876	10/23/95	PCE	120	0.14	1.6	2, p. BII-11; 27, pp. 1, 78-79; 28, p. 3; 37, p. 2
33888	10/23/95	PCE	210	0.14	1.6	2, p. BII-11; 27, pp. 1, 80-81; 28, p. 3; 37, p. 2

1995 Private Well Samples (Continued)

Sample ID	Date Collected	Hazardous Substance	Concentration (ug/L)	MDL (ug/L)	CRSC (ug/L)	References
33886	10/23/95	PCE	55	0.14	1.6	2, p. BII-11; 27, pp. 1, 82-83; 28, p. 3; 37, p. 2
33899	10/20/95	PCE	41	0.14	1.6	2, p. BII-11; 27, pp. 1, 84-85; 28, p. 3; 37, p. 2
33897	10/20/95	PCE	180	0.14	1.6	2, p. BII-11; 27, pp. 1, 86-87; 28, p. 3; 37, p. 2
37431	12/13/95	PCE	37	0.14	1.6	2, p. BII-11; 27, pp. 1, 91-92; 28, p. 3; 37, p. 2
37430	12/13/95	PCE	46	0.14	1.6	2, p. BII-11; 27, pp. 1, 93-94; 28, p. 3; 37, p. 2

Notes: ug/L - Micrograms per Liter  
PCE - Tetrachloroethylene  
CRSC - Cancer Risk Screening Concentration  
MDL - Method Detection Limit

GW-Observed Release  
Floridan Aquifer

1996 Private Well Samples

Sample ID	Date Collected	Hazardous Substance	Concentration (ug/L)	MDL (ug/L)	CRSC (ug/L)	References
40091	1/24/96	PCE	77	0.14	1.6	2, p. BII-11; 27, pp. 1, 98-99; 28, p. 3; 37, p. 2
40088	1/24/96	PCE	110	0.14	1.6	2, p. BII-11; 27, pp. 1, 100 - 101; 28, p. 3; 37, p. 2
40087	1/24/96	PCE	76	0.14	1.6	2, p. BII-11; 27, pp. 1, 102 - 103; 28, p. 3; 37, p. 2
40086	1/24/96	PCE	99	0.14	1.6	2, p. BII-11; 27, pp. 1, 104 - 105; 28, p. 3; 37, p. 2
40085	1/24/96	PCE	180	0.14	1.6	2, p. BII-11; 27, pp. 1, 106 - 107; 28, p. 3; 37, p. 2
40082	1/24/96	PCE	170	0.14	1.6	2, p. BII-11; 27, pp. 1, 108 - 109; 28, p. 3; 37, p. 2
51617	6/14/96	PCE	47	0.14	1.6	2, p. BII-11; 27, pp. 1, 113-114; 28, p. 3; 37, p. 2
51614	6/14/96	PCE	88	0.14	1.6	2, p. BII-11; 27, pp. 1, 115-116; 28, p. 3; 37, p. 2

GW-Observed Release  
Floridan Aquifer

1996 Private Well Samples (Continued)

Sample ID	Date Collected	Hazardous Substance	Concentration (ug/L)	MDL (ug/L)	CRSC (ug/L)	References
51611	6/14/96	PCE	61	0.14	1.6	2, p. BII-11; 27, pp. 1, 117-118; 28, p. 3; 37, p. 2
51604	6/14/96	PCE	68	0.14	1.6	2, p. BII-11; 27, pp. 1, 119-120; 28, p. 3; 37, p. 2
51630	6/14/96	PCE	140	0.14	1.6	2, p. BII-11; 27, pp. 1, 124-125; 28, p. 3; 37, p. 2
51627	6/14/96	PCE	140	0.14	1.6	2, p. BII-11; 27, pp. 1, 126-127; 28, p. 3; 37, p. 2
51624	6/14/96	PCE	150	0.14	1.6	2, p. BII-11; 27, pp. 1, 128-129; 28, p. 3; 37, p. 2
53173	7/8/96	PCE	1.2	0.14	1.6	2, p. BII-11; 27, pp. 1, 133-134; 28, p. 3; 30, p. 8; 37, p. 2
53171	7/8/96	PCE	2.4	0.14	1.6	2, p. BII-11; 27, pp. 1, 135-136; 28, p. 3; 37, p. 2
53168	7/8/96	PCE	1.3	0.14	1.6	2, p. BII-11; 27, pp. 1, 137-138; 28, p. 3; 37, p. 2

GW-Observed Release  
Floridan Aquifer

1996 Private Well Samples (Continued)

Sample ID	Date Collected	Hazardous Substance	Concentration (ug/L)	MDL (ug/L)	CRSC (ug/L)	References
53493	7/12/96	PCE	1.3	0.14	1.6	2, p. BII-11; 27, pp. 1, 142-143; 28, p. 3; 37, p. 2
53492	7/12/96	PCE	1.2	0.14	1.6	2, p. BII-11; 27, pp. 1, 144-145; 28, p. 3; 37, p. 2
53490	7/12/96	PCE	0.98	0.14	1.6	2, p. BII-11; 27, pp. 1, 146-147; 28, p. 3; 37, p. 2
53625	7/15/96	PCE	0.53	0.14	1.6	2, p. BII-11; 27, pp. 1, 151-152; 28, p. 3; 37, p. 2
55530	8/9/96	PCE	10	0.14	1.6	2, p. BII-11; 27, pp. 1, 156-157; 28, p. 3; 37, p. 2
58432	9/16/96	PCE	54	0.14	1.6	2, p. BII-11; 27, pp. 1, 161-162; 28, p. 3; 37, p. 2
58429	9/16/96	PCE	83	0.14	1.6	2, p. BII-11; 27, pp. 1, 163-164; 28, p. 3; 37, p. 2
58423	9/16/96	PCE	55	0.14	1.6	2, p. BII-11; 27, pp. 1, 167-168; 28, p. 3; 37, p. 2
58420	9/16/96	PCE	87	0.14	1.6	2, p. BII-11; 27, pp. 1, 169-170; 28, p. 3; 37, p. 2



1996 Private Well Samples (Continued)

Sample ID	Date Collected	Hazardous Substance	Concentration (ug/L)	MDL (ug/L)	CRSC (ug/L)	References
58411	9/16/96	PCE	79	0.14	1.6	2, p. BII-11; 27, pp. 1, 173-174; 28, p. 3; 37, p. 2
58408	9/16/96	PCE	160	0.14	1.6	2, p. BII-11; 27, pp. 1, 175-176; 28, p. 3; 37, p. 2
62819	11/12/96	PCE	41	0.14	1.6	2, p. BII-11; 27, pp. 1, 180-181; 28, p. 3; 37, p. 2
63727	11/20/96	PCE	11	0.14	1.6	2, p. BII-11; 27, pp. 1, 185-186; 28, p. 3; 37, p. 2
64894	12/9/96	PCE	4.1	0.14	1.6	2, p. BII-11; 27, pp. 1, 190-191; 28, p. 3; 37, p. 2
64893	12/9/96	PCE	0.8	0.14	1.6	2, p. BII-11; 27, pp. 1, 192-193; 28, p. 3; 37, p. 2
65816	12/17/96	PCE	24	0.14	1.6	2, p. BII-11; 27, pp. 1, 197-198; 28, p. 3; 37, p. 2
65813	12/17/96	PCE	22	0.14	1.6	2, p. BII-11; 27, pp. 1, 199-200; 28, p. 3; 37, p. 2

1996 Private Well Samples (Continued)

Sample ID	Date Collected	Hazardous Substance	Concentration (ug/L)	MDL (ug/L)	CRSC (ug/L)	References
65810	12/17/96	PCE	57	0.14	1.6	2, p. BII-11; 27, pp. 1, 201-202; 28, p. 3; 37, p. 2
65800	12/17/96	PCE	52	0.14	1.6	2, p. BII-11; 27, pp. 1, 207-208; 28, p. 3; 37, p. 2
65797	12/17/96	PCE	38	0.14	1.6	2, p. BII-11; 27, pp. 1, 209-210; 28, p. 3; 37, p. 2
65791	12/17/96	PCE	53	0.14	1.6	2, p. BII-11; 27, pp. 1, 211-212; 28, p. 3; 37, p. 2

Notes: ug/L            - Micrograms per Liter  
PCE                    - Tetrachloroethylene  
CRSC                  - Cancer Risk Screening Concentration  
MDL                   - Method Detection Limit

1997 Private Well Samples

Sample ID	Date Collected	Hazardous Substance	Concentration (ug/L)	MDL (ug/L)	CRSC (ug/L)	References
81687	7/8/97	PCE	2.8	0.14	1.6	2, p. BII-11; 27, pp. 1, 216-217; 28, p. 3; 37, p. 2
81685	7/8/97	PCE	2.4	0.14	1.6	2, p. BII-11; 27, pp. 1, 218-219; 28, p. 3; 37, p. 2
81853	7/10/97	PCE	2	0.14	1.6	2, p. BII-11; 27, pp. 1, 223-224; 28, p. 3; 37, p. 2
82084	7/15/97	PCE	0.53	0.14	1.6	2, p. BII-11; 27, pp. 1, 228-229; 28, p. 3; 37, p. 2
82666	7/22/97	PCE	0.68	0.14	1.6	2, p. BII-11; 27, pp. 1, 233-234; 28, p. 3; 37, p. 2
82665	7/22/97	PCE	0.51	0.14	1.6	2, p. BII-11; 27, pp. 1, 235-236; 28, p. 3; 37, p. 2
82664	7/22/97	PCE	1	0.14	1.6	2, p. BII-11; 27, pp. 1, 237-238; 28, p. 3; 37, p. 2
82700	7/22/97	PCE	1.3	0.14	1.6	2, p. BII-11; 27, pp. 1, 242-243; 28, p. 3; 37, p. 2

1997 Private Well Samples (Continued)

Sample ID	Date Collected	Hazardous Substance	Concentration (ug/L)	MDL (ug/L)	CRSC (ug/L)	References
82697	7/22/97	PCE	0.5	0.14	1.6	2, p. BII-11; 27, pp. 1, 244-245; 28, p. 3; 37, p. 2
82694	7/22/97	PCE	0.63	0.14	1.6	2, p. BII-11; 27, pp. 1, 246-247; 28, p. 3; 37, p. 2
82693	7/22/97	PCE	1.5	0.14	1.6	2, p. BII-11; 27, pp. 1, 248-249; 28, p. 3; 37, p. 2
82692	7/22/97	PCE	2.2	0.14	1.6	2, p. BII-11; 27, pp. 1, 250-251; 28, p. 3; 37, p. 2
82691	7/22/97	PCE	0.96	0.14	1.6	2, p. BII-11; 27, pp. 1, 252-253; 28, p. 3; 37, p. 2
82743	7/23/97	PCE	0.53	0.14	1.6	2, p. BII-11; 27, pp. 1, 257-258; 28, p. 3; 37, p. 2
82742	7/23/97	PCE	1	0.14	1.6	2, p. BII-11; 27, pp. 1, 259-260; 28, p. 3; 37, p. 2
82741	7/23/97	PCE	0.9	0.14	1.6	2, p. BII-11; 27, pp. 1, 261-262; 28, p. 3; 37, p. 2

1997 Private Well Samples (Continued)

Sample ID	Date Collected	Hazardous Substance	Concentration (ug/L)	MDL (ug/L)	CRSC (ug/L)	References
82740	7/23/97	PCE	0.72	0.14	1.6	2, p. BII-11; 27, pp. 1, 263-264; 28, p. 3; 37, p. 2
82737	7/23/97	PCE	2.4	0.14	1.6	2, p. BII-11; 27, pp. 1 265-266; 28, p. 3; 37, p. 2
83739	8/11/97	PCE	1	0.14	1.6	2, p. BII-11; 27, pp. 1, 270-271; 28, p. 3; 37, p. 2
87546	10/7/97	PCE	1.6	0.14	1.6	2, p. BII-11; 27, pp. 1, 275-276; 28, p. 3; 37, p. 2
87545	10/7/97	PCE	1.1	0.14	1.6	2, p. BII-11; 27, pp. 1, 277-278; 28, p. 3; 37, p. 2
87543	10/7/97	PCE	7.7	0.14	1.6	2, p. BII-11; 27, pp. 1, 279-280; 28, p. 3; 37, p. 2
87539	10/7/97	PCE	0.72	0.14	1.6	2, p. BII-11; 27, pp. 1, 281-282; 28, p. 3; 37, p. 2
87538	10/7/97	PCE	0.98	0.14	1.6	2, p. BII-11; 27, pp. 1, 283-284; 28, p. 3; 37, p. 2

1997 Private Well Samples (Continued)

Sample ID	Date Collected	Hazardous Substance	Concentration (ug/L)	MDL (ug/L)	CRSC (ug/L)	References
87634	10/8/97	PCE	1.4	0.14	1.6	2, p. BII-11; 27, pp. 1, 288-289; 28, p. 3; 37, p. 2
87632	10/8/97	PCE	0.95	0.14	1.6	2, p. BII-11; 27, pp. 1, 290-291; 28, p. 3; 37, p. 2

Notes:      ug/L      - Micrograms per Liter  
                  PCE        - Tetrachloroethylene  
                  CRSC      - Cancer Risk Screening Concentration  
                  MDL        - Method Detection Limit

1998 Private Well Samples

Sample ID	Date Collected	Hazardous Substance	Concentration (ug/L)	MDL (ug/L)	CRSC (ug/L)	References
92374	1/5/98	PCE	0.92	0.14	1.6	2, p. BII-11; 27, pp. 1, 295-296; 28, p. 3; 37, p. 2
92373	1/5/98	PCE	0.89	0.14	1.6	2, p. BII-11; 27, pp. 1, 297-298; 28, p. 3; 37, p. 2
99262	4/10/98	PCE	0.63	0.14	1.6	2, p. BII-11; 27, pp. 1, 302-303; 28, p. 3; 37, p. 2
99257	4/10/98	PCE	0.95	0.14	1.6	2, p. BII-11; 27, pp. 1, 304-305; 28, p. 3; 37, p. 2
102018	5/20/98	PCE	1.1	0.14	1.6	2, p. BII-11; 27, pp. 1, 309-310; 28, p. 3; 37, p. 2
102016	5/20/98	PCE	2.6	0.14	1.6	2, p. BII-11; 27, pp. 1, 311-312; 28, p. 3; 37, p. 2
102014	5/20/98	PCE	1.3	0.14	1.6	2, p. BII-11; 27, pp. 1, 313-314; 28, p. 3; 37, p. 2
102011	5/20/98	PCE	6	0.14	1.6	2, p. BII-11; 27, pp. 1, 315-316; 28, p. 3; 37, p. 2

1998 Private Well Samples (Continued)

Sample ID	Date Collected	Hazardous Substance	Concentration (ug/L)	MDL (ug/L)	CRSC (ug/L)	References
104920	7/7/98	PCE	1.5	0.14	1.6	2, p. BII-11; 27, pp. 1, 320-321; 28, p. 3; 37, p. 2
105444	7/16/98	PCE	0.51	0.14	1.6	2, p. BII-11; 27, pp. 1, 325-326; 28, p. 3; 37, p. 2
105439	7/16/98	PCE	2.5	0.14	1.6	2, p. BII-11; 27, pp. 1, 327-328; 28, p. 3; 37, p. 2
105437	7/16/98	PCE	0.52	0.14	1.6	2, p. BII-11; 27, pp. 1, 329-330; 28, p. 3; 37, p. 2
105601	7/20/98	PCE	1.2	0.14	1.6	2, p. BII-11; 27, pp. 1, 334-335; 28, p. 3; 37, p. 2
108648	9/1/98	PCE	0.58	0.14	1.6	2, p. BII-11; 27, pp. 1, 339-340; 28, p. 3; 37, p. 2
111241	10/15/98	PCE	2	0.14	1.6	2, p. BII-11; 27, pp. 1, 346-347; 28, p. 3; 37, p. 2
111240	10/15/98	PCE	0.63	0.14	1.6	2, p. BII-11; 27, pp. 1, 348-349; 28, p. 3; 37, p. 2
111238	10/15/98	PCE	0.52	0.14	1.6	2, p. BII-11; 27, pp. 1, 350-351; 28, p. 3; 37, p. 2



1998 Private Well Samples (Continued)

Sample ID	Date Collected	Hazardous Substance	Concentration (ug/L)	MDL (ug/L)	CRSC (ug/L)	References
111334	10/16/98	PCE	0.52	0.14	1.6	2, p. BII-11; 27, pp. 1, 355-356; 28, p. 3; 37, p. 2
111333	10/16/98	PCE	0.77	0.14	1.6	2, p. BII-11; 27, pp. 1, 357-358; 28, p. 3; 37, p. 2
111332	10/16/98	PCE	0.6	0.14	1.6	2, p. BII-11; 27, pp. 1, 359-360; 28, p. 3; 37, p. 2
111330	10/16/98	PCE	1	0.14	1.6	2, p. BII-11; 27, pp. 1, 361-362; 28, p. 3; 37, p. 2
111328	10/16/98	PCE	0.95	0.14	1.6	2, p. BII-11; 27, pp. 1, 363-364; 28, p. 3; 37, p. 2
112624	11/6/98	PCE	1.8	0.14	1.6	2, p. BII-11; 27, pp. 1, 368-369; 28, p. 3; 37, p. 2

Notes: ug/L - Micrograms per Liter  
PCE - Tetrachloroethylene  
CRSC - Cancer Risk Screening Concentration  
MDL - Method Detection Limit

1999 Private Well Samples

Sample ID	Date Collected	Hazardous Substance	Concentration (ug/L)	MDL (ug/L)	CRSC (ug/L)	References
116465	1/20/99	PCE	0.74	0.14	1.6	2, p. BII-11; 27, pp. 1, 373-374; 28, p. 3; 37, p. 2
116626	1/25/99	PCE	1.1	0.14	1.6	2, p. BII-11; 27, pp. 1, 378-379; 28, p. 3; 37, p. 2
116625	1/25/99	PCE	1	0.14	1.6	2, p. BII-11; 27, pp. 1, 380-381; 28, p. 3; 37, p. 2
116623	1/25/99	PCE	1.9	0.14	1.6	2, p. BII-11; 27, pp. 1, 384-385; 28, p. 3; 37, p. 2
116622	1/25/99	PCE	0.65	0.14	1.6	2, p. BII-11; 27, pp. 1, 386-387; 28, p. 3; 37, p. 2
116619	1/25/99	PCE	0.67	0.14	1.6	2, p. BII-11; 27, pp. 1, 388-389; 28, p. 3; 37, p. 2
117393	2/4/99	PCE	2	0.14	1.6	2, p. BII-11; 27, pp. 1, 393-394; 28, p. 3; 37, p. 2

1999 Private Well Samples (Continued)

Sample ID	Date Collected	Hazardous Substance	Concentration (ug/L)	MDL (ug/L)	CRSC (ug/L)	References
124961	6/2/99	PCE	2	0.14	1.6	2, p. BII-11; 27, pp. 1, 398-399; 28, p. 3; 37, p. 2
124960	6/2/99	PCE	1	0.14	1.6	2, p. BII-11; 27, pp. 1, 400-401; 28, p. 3; 37, p. 2
124956	6/2/99	PCE	1.5	0.14	1.6	2, p. BII-11; 27, pp. 1, 402-403; 28, p. 3; 37, p. 2
128988	7/29/99	PCE	1.8	0.14	1.6	2, p. BII-11; 27, pp. 1, 407-408; 28, p. 3; 37, p. 2
128985	7/29/99	PCE	0.9	0.14	1.6	2, p. BII-11; 27, pp. 1, 409-410; 28, p. 3; 37, p. 2
128984	7/29/99	PCE	0.5	0.14	1.6	2, p. BII-11; 27, pp. 1, 411-412; 28, p. 3; 37, p. 2
130561	8/18/99	PCE	0.67	0.14	1.6	2, p. BII-11; 27, pp. 1, 416-417; 28, p. 3; 37, p. 2
130560	8/18/99	PCE	0.5	0.14	1.6	2, p. BII-11; 27, pp. 1, 418-419; 28, p. 3; 37, p. 2

1999 Private Well Samples (Continued)

Sample ID	Date Collected	Hazardous Substance	Concentration (ug/L)	MDL (ug/L)	CRSC (ug/L)	References
130558	8/18/99	PCE	0.67	0.14	1.6	2, p. BII-11; 27, pp. 1, 420-421; 28, p. 3; 37, p. 2
131007	8/24/99	PCE	1.5	0.14	1.6	2, p. BII-11; 27, pp. 1, 425-426; 28, p. 3; 37, p. 2
131006	8/24/99	PCE	1.5	0.14	1.6	2, p. BII-11; 27, pp. 1, 427-428; 28, p. 3; 37, p. 2

Notes:      ug/L      - Micrograms per Liter  
               PCE        - Tetrachloroethylene  
               CRSC      - Cancer Risk Screening Concentration  
               MDL        - Method Detection Limit

2000 Private Well Samples

Sample ID	Date Collected	Hazardous Substance	Concentration (ug/L)	MDL (ug/L)	CRSC (ug/L)	References
139054	1/6/00	PCE	1.9	0.14	1.6	2, p. BII-11; 27, pp. 1, 509-510; 28, p. 3; 37, p. 2
139053	1/6/00	PCE	1.3	0.14	1.6	2, p. BII-11; 27, pp. 1, 511-512; 28, p. 3; 37, p. 2
139052	1/6/00	PCE	1.5	0.14	1.6	2, p. BII-11; 27, pp. 1, 513-514; 28, p. 3; 37, p. 2
139051	1/6/00	PCE	2.8	0.14	1.6	2, p. BII-11; 27, pp. 1, 515-516; 28, p. 3; 37, p. 2
139050	1/6/00	PCE	2.5	0.14	1.6	2, p. BII-11; 27, pp. 1, 517-518; 28, p. 3; 37, p. 2
139049	1/6/00	PCE	2.5	0.14	1.6	2, p. BII-11; 27, pp. 1, 519-520; 28, p. 3; 37, p. 2
139047	1/6/00	PCE	2.1	0.14	1.6	2, p. BII-11; 27, pp. 1, 521-522; 28, p. 3; 37, p. 2

2000 Private Well Samples (Continued)

Sample ID	Date Collected	Hazardous Substance	Concentration (ug/L)	MDL (ug/L)	CRSC (ug/L)	References
139046	1/6/00	PCE	2.3	0.14	1.6	2, p. BII-11; 27, pp. 1, 523-524; 28, p. 3; 37, p. 2
144227	3/15/00	PCE	1.2	0.14	1.6	2, p. BII-11; 27, pp. 1, 502-503; 28, p. 3; 37, p. 2
144218	3/15/00	PCE	1.8	0.14	1.6	2, p. BII-11; 27, pp. 1, 504-505; 28, p. 3; 37, p. 2
144592	3/22/00	PCE	1.7	0.14	1.6	2, p. BII-11; 27, pp. 1, 497-498; 28, p. 3; 37, p. 2
153225	8/24/00	PCE	2.2	0.14	1.6	2, p. BII-11; 27, pp. 1, 488-489; 28, p. 3; 37, p. 2
153224	8/24/00	PCE	2.9	0.14	1.6	2, p. BII-11; 27, pp. 1, 490-491; 28, p. 3; 37, p. 2
153222	8/24/00	PCE	2.8	0.14	1.6	2, p. BII-11; 27, pp. 1, 492-493; 28, p. 3; 37, p. 2

2000 Private Well Samples (Continued)

Sample ID	Date Collected	Hazardous Substance	Concentration (ug/L)	MDL (ug/L)	CRSC (ug/L)	References
154597	9/19/00	PCE	2.4	0.14	1.6	2, p. BII-11; 27, pp. 1, 471-472; 28, p. 3; 37, p. 2
154596	9/19/00	PCE	2.3	0.14	1.6	2, p. BII-11; 27, pp. 1, 473-474; 28, p. 3; 37, p. 2
154595	9/19/00	PCE	2.4	0.14	1.6	2, p. BII-11; 27, pp. 1, 475-476; 28, p. 3; 37, p. 2
154593	9/19/00	PCE	1.1	0.14	1.6	2, p. BII-11; 27, pp. 1, 477-478; 28, p. 3; 37, p. 2
154592	9/19/00	PCE	5.2	0.14	1.6	2, p. BII-11; 27, pp. 1, 479-480; 28, p. 3; 37, p. 2
154591	9/19/00	PCE	3.8	0.14	1.6	2, p. BII-11; 27, pp. 1, 481-482; 28, p. 3; 37, p. 2
154590	9/19/00	PCE	4	0.14	1.6	2, p. BII-11; 27, pp. 1, 483-484; 28, p. 3; 37, p. 2

2000 Private Well Samples (Continued)

Sample ID	Date Collected	Hazardous Substance	Concentration (ug/L)	MDL (ug/L)	CRSC (ug/L)	References
156424	10/25/00	PCE	5.3	0.14	1.6	2, p. BII-11; 27, pp. 1, 464-465; 28, p. 3; 37, p. 2
156423	10/25/00	PCE	3.2	0.14	1.6	2, p. BII-11; 27, pp. 1, 466-467; 28, p. 3; 37, p. 2
157875	12/4/00	PCE	1	0.14	1.6	2, p. BII-11; 27, pp. 1, 442-443; 28, p. 3; 37, p. 2
157874	12/4/00	PCE	0.52	0.14	1.6	2, p. BII-11; 27, pp. 1, 444-445; 28, p. 3; 37, p. 2
157872	12/4/00	PCE	0.66	0.14	1.6	2, p. BII-11; 27, pp. 1, 446-447; 28, p. 3; 37, p. 2
157868	12/4/00	PCE	1.5	0.14	1.6	2, p. BII-11; 27, pp. 1, 448-449; 28, p. 3; 37, p. 2
158152	12/11/00	PCE	0.77	0.14	1.6	2, p. BII-11; 27, pp. 1, 453-454; 28, p. 3; 37, p. 2



2000 Private Well Samples (Continued)

Sample ID	Date Collected	Hazardous Substance	Concentration (ug/L)	MDL (ug/L)	CRSC (ug/L)	References
158150	12/11/00	PCE	2.2	0.14	1.6	2, p. BII-11; 27, pp. 1, 455-456; 28, p. 3; 37, p. 2
158149	12/11/00	PCE	2.4	0.14	1.6	2, p. BII-11; 27, pp. 1, 457-458; 28, p. 3; 37, p. 2
158146	12/11/00	PCE	1.2	0.14	1.6	2, p. BII-11; 27, pp. 1, 459-460; 28, p. 3; 37, p. 2

Notes:      ug/L            - Micrograms per Liter  
               PCE            - Tetrachloroethylene  
               CRSC        - Cancer Risk Screening Concentration  
               MDL         - Method Detection Limit

2001 Private Well Samples

Sample ID	Date Collected	Hazardous Substance	Concentration (ug/L)	MDL (ug/L)	CRSC (ug/L)	References
159088	1/9/01	PCE	2.1	0.14	1.6	2, p. BII-11; 27, pp. 1, 528-529; 28, p. 3; 37, p. 2
159087	1/8/01	PCE	3.4	0.14	1.6	2, p. BII-11; 27, pp. 1, 530-531; 28, p. 3; 37, p. 2
159086	1/8/01	PCE	4	0.14	1.6	2, p. BII-11; 27, pp. 1, 532-533; 28, p. 3; 37, p. 2
159085	1/8/01	PCE	2.6	0.14	1.6	2, p. BII-11; 27, pp. 1, 534-535; 28, p. 3; 37, p. 2
159084	1/8/01	PCE	0.53	0.14	1.6	2, p. BII-11; 27, pp. 1, 326-537; 28, p. 3; 37, p. 2
161212	2/19/01	PCE	1.8	0.14	1.6	2, p. BII-11; 27, pp. 1, 541-542; 28, p. 3; 37, p. 2
161211	2/19/01	PCE	1.3	0.14	1.6	2, p. BII-11; 27, pp. 1, 543-544; 28, p. 3; 37, p. 2
161210	2/19/01	PCE	2	0.14	1.6	2, p. BII-11; 27, pp. 1, 545-546; 28, p. 3; 37, p. 2

2001 Private Well Samples (Continued)

Sample ID	Date Collected	Hazardous Substance	Concentration (ug/L)	MDL (ug/L)	CRSC (ug/L)	References
161209	2/19/01	PCE	1.1	0.14	1.6	2, p. BII-11; 27, pp. 1, 547-548; 28, p. 3; 37, p. 2
161208	2/19/01	PCE	1.9	0.14	1.6	2, p. BII-11; 27, pp. 1, 549-550; 28, p. 3; 37, p. 2
161252	2/19/01	PCE	0.54	0.14	1.6	2, p. BII-11; 27, pp. 1, 554-555; 28, p. 3; 37, p. 2
161251	2/19/01	PCE	0.81	0.14	1.6	2, p. BII-11; 27, pp. 1, 556-557; 28, p. 3; 37, p. 2
161250	2/19/01	PCE	2.1	0.14	1.6	2, p. BII-11; 27, pp. 1, 558-559; 28, p. 3; 37, p. 2
161248	2/19/01	PCE	2.6	0.14	1.6	2, p. BII-11; 27, pp. 1, 560-561; 28, p. 3; 37, p. 2
161246	2/19/01	PCE	1.4	0.14	1.6	2, p. BII-11; 27, pp. 1, 562-563; 28, p. 3; 37, p. 2

2001 Private Well Samples (Continued)

Sample ID	Date Collected	Hazardous Substance	Concentration (ug/L)	MDL (ug/L)	CRSC (ug/L)	References
161245	2/19/01	PCE	2.2	0.14	1.6	2, p. BII-11; 27, pp. 1, 564-565; 28, p. 3; 37, p. 2
161244	2/19/01	PCE	1.3	0.14	1.6	2, p. BII-11; 27, pp. 1, 566-567; 28, p. 3; 37, p. 2
161243	2/19/01	PCE	1.9	0.14	1.6	2, p. BII-11; 27, pp. 1, 568-569; 28, p. 3; 37, p. 2
164419	4/16/01	PCE	0.82	0.14	1.6	2, p. BII-11; 27, pp. 1, 573-574; 28, p. 3; 37, p. 2
164411	4/16/01	PCE	1.9	0.14	1.6	2, p. BII-11; 27, pp. 1, 575-576; 28, p. 3; 37, p. 2
164460	4/16/01	PCE	2.6	0.14	1.6	2, p. BII-11; 27, pp. 1, 580-581; 28, p. 3; 37, p. 2
164458	4/16/01	PCE	3.9	0.14	1.6	2, p. BII-11; 27, pp. 1, 582-583; 28, p. 3; 37, p. 2

2001 Private Well Samples (Continued)

Sample ID	Date Collected	Hazardous Substance	Concentration (ug/L)	MDL (ug/L)	CRSC (ug/L)	References
164457	4/16/01	PCE	2.2	0.14	1.6	2, p. BII-11; 27, pp. 1, 584-585; 28, p. 3; 37, p. 2
164456	4/16/01	PCE	3.1	0.14	1.6	2, p. BII-11; 27, pp. 1, 586-587; 28, p. 3; 37, p. 2
167033	5/29/01	PCE	1.5	0.14	1.6	2, p. BII-11; 27, pp. 1, 608-609; 28, p. 3; 37, p. 2
167032	5/29/01	PCE	3.4	0.14	1.6	2, p. BII-11; 27, pp. 1, 610-611; 28, p. 3; 37, p. 2
167049	5/30/01	PCE	0.7	0.14	1.6	2, p. BII-11; 27, pp. 1, 591-592; 28, p. 3; 37, p. 2
167047	5/30/01	PCE	0.84	0.14	1.6	2, p. BII-11; 27, pp. 1, 593-594; 28, p. 3; 37, p. 2
167046	5/30/01	PCE	2.4	0.14	1.6	2, p. BII-11; 27, pp. 1, 595-596; 28, p. 3; 37, p. 2

2001 Private Well Samples (Continued)

Sample ID	Date Collected	Hazardous Substance	Concentration (ug/L)	MDL (ug/L)	CRSC (ug/L)	References
167045	5/30/01	PCE	2.5	0.14	1.6	2, p. BII-11; 27, pp. 1, 597-598; 28, p. 3; 37, p. 2
167044	5/30/01	PCE	1.6	0.14	1.6	2, p. BII-11; 27, pp. 1, 599-600; 28, p. 3; 37, p. 2
167043	5/30/01	PCE	1.9	0.14	1.6	2, p. BII-11; 27, pp. 1, 601-602; 28, p. 3; 37, p. 2
167042	5/30/01	PCE	2.2	0.14	1.6	2, p. BII-11; 27, pp. 1, 603-604; 28, p. 3; 37, p. 2
168257	6/25/01	PCE	2.3	0.14	1.6	2, p. BII-11; 27, pp. 1, 615-616; 28, p. 3; 37, p. 2
168255	6/25/01	PCE	1.9	0.14	1.6	2, p. BII-11; 27, pp. 1, 617-618; 28, p. 3; 37, p. 2
168427	6/26/01	PCE	0.74	0.14	1.6	2, p. BII-11; 27, pp. 1, 622-623; 28, p. 3; 37, p. 2

2001 Private Well Samples (Continued)

Sample ID	Date Collected	Hazardous Substance	Concentration (ug/L)	MDL (ug/L)	CRSC (ug/L)	References
168425	6/26/01	PCE	0.64	0.14	1.6	2, p. BII-11; 27, pp. 1, 624-625; 28, p. 3; 37, p. 2
168424	6/26/01	PCE	2.6	0.14	1.6	2, p. BII-11; 27, pp. 1, 626-627; 28, p. 3; 37, p. 2
168423	6/26/01	PCE	1.7	0.14	1.6	2, p. BII-11; 27, pp. 1, 628-629; 28, p. 3; 37, p. 2
168422	6/26/01	PCE	2.9	0.14	1.6	2, p. BII-11; 27, pp. 1, 630-631; 28, p. 3; 37, p. 2
168420	6/26/01	PCE	3.3	0.14	1.6	2, p. BII-11; 27, pp. 1, 632-633; 28, p. 3; 37, p. 2
169587	7/25/01	PCE	1.8	0.14	1.6	2, p. BII-11; 27, pp. 1, 637-638; 28, p. 3; 37, p. 2
170249	8/13/01	PCE	1.8	0.14	1.6	2, p. BII-11; 27, pp. 1, 642-643; 28, p. 3; 37, p. 2

2001 Private Well Samples (Continued)

Sample ID	Date Collected	Hazardous Substance	Concentration (ug/L)	MDL (ug/L)	CRSC (ug/L)	References
170248	8/13/01	PCE	1.6	0.14	1.6	2, p. BII-11; 27, pp. 1, 644-645; 28, p. 3; 37, p. 2
170246	8/13/01	PCE	2.6	0.14	1.6	2, p. BII-11; 27, pp. 1, 646-647; 28, p. 3; 37, p. 2
170245	8/13/01	PCE	2.3	0.14	1.6	2, p. BII-11; 27, pp. 1, 648-649; 28, p. 3; 37, p. 2
170243	8/13/01	PCE	2.6	0.14	1.6	2, p. BII-11; 27, pp. 1, 650-651; 28, p. 3; 37, p. 2
171167	9/5/01	PCE	78	0.14	1.6	2, p. BII-11; 27, pp. 1, 655-657; 28, p. 3; 37, p. 2
171165	9/5/01	PCE	0.89	0.14	1.6	2, p. BII-11; 27, pp. 1, 658-660; 28, p. 3; 37, p. 2
171571	9/18/01	PCE	2.3	0.14	1.6	2, p. BII-11; 27, pp. 1, 664-666; 28, p. 3; 37, p. 2



2001 Private Well Samples (Continued)

Sample ID	Date Collected	Hazardous Substance	Concentration (ug/L)	MDL (ug/L)	CRSC (ug/L)	References
171569	9/18/01	PCE	3.4	0.14	1.6	2, p. BII-11; 27, pp. 1, 667-669; 28, p. 3; 37, p. 2
171568	9/18/01	PCE	3.2	0.14	1.6	2, p. BII-11; 27, pp. 1, 670-672; 28, p. 3; 37, p. 2
171566	9/18/01	PCE	1.4	0.14	1.6	2, p. BII-11; 27, pp. 1, 673-675; 28, p. 3; 37, p. 2
171565	9/18/01	PCE	1.8	0.14	1.6	2, p. BII-11; 27, pp. 1, 676-677; 28, p. 3; 37, p. 2
171564	9/18/01	PCE	2.2	0.14	1.6	2, p. BII-11; 27, pp. 1, 678-680; 28, p. 3; 37, p. 2
171563	9/18/01	PCE	3.3	0.14	1.6	2, p. BII-11; 27, pp. 1, 681-683; 28, p. 3; 37, p. 2
173702	11/6/01	PCE	1.8	0.14	1.6	2, p. BII-11; 27, pp. 1, 699-700; 28, p. 3; 37, p. 2

2001 Private Well Samples (Continued)

Sample ID	Date Collected	Hazardous Substance	Concentration (ug/L)	MDL (ug/L)	CRSC (ug/L)	References
173709	11/7/01	PCE	6.7	0.14	1.6	2, p. BII-11; 27, pp. 1, 687-688; 28, p. 3; 37, p. 2
173708	11/7/01	PCE	1.7	0.14	1.6	2, p. BII-11; 27, pp. 1, 689-690; 28, p. 3; 37, p. 2
173707	11/7/01	PCE	2.1	0.14	1.6	2, p. BII-11; 27, pp. 1, 691-692; 28, p. 3; 37, p. 2
173706	11/7/01	PCE	2	0.14	1.6	2, p. BII-11; 27, pp. 1, 693-694; 28, p. 3; 37, p. 2
173705	11/7/01	PCE	1.2	0.14	1.6	2, p. BII-11; 27, pp. 1, 695-696; 28, p. 3; 37, p. 2
173703	11/7/01	PCE	3	0.14	1.6	2, p. BII-11; 27, pp. 1, 697-698; 28, p. 3; 37, p. 2
175796	12/17/01	PCE	0.97	0.14	1.6	2, p. BII-11; 27, pp. 1, 704-706; 28, p. 3; 37, p. 2

2001 Private Well Samples (Continued)

Sample ID	Date Collected	Hazardous Substance	Concentration (ug/L)	MDL (ug/L)	CRSC (ug/L)	References
175795	12/17/01	PCE	0.84	0.14	1.6	2, p. BII-11; 27, pp. 1, 707-709; 28, p. 3; 37, p. 2
175794	12/17/01	PCE	2.3	0.14	1.6	2, p. BII-11; 27, pp. 1, 710-711; 28, p. 3; 37, p. 2
175792	12/17/01	PCE	3.1	0.14	1.6	2, p. BII-11; 27, pp. 1, 712-713; 28, p. 3; 37, p. 2
175791	12/17/01	PCE	10	0.14	1.6	2, p. BII-11; 27, pp. 1, 714-716; 28, p. 3; 37, p. 2
175827	12/17/01	PCE	2	0.14	1.6	2, p. BII-11; 27, pp. 1, 720-721; 28, p. 3; 37, p. 2
175825	12/17/01	PCE	1.5	0.14	1.6	2, p. BII-11; 27, pp. 1, 722-723; 28, p. 3; 37, p. 2
175824	12/17/01	PCE	2	0.14	1.6	2, p. BII-11; 27, pp. 1, 724-725; 28, p. 3; 37, p. 2

2001 Private Well Samples (Continued)

Sample ID	Date Collected	Hazardous Substance	Concentration (ug/L)	MDL (ug/L)	CRSC (ug/L)	References
175823	12/17/01	PCE	2	0.14	1.6	2, p. BII-11; 27, pp. 1, 726-727; 28, p. 3; 37, p. 2
175822	12/17/01	PCE	3.1	0.14	1.6	2, p. BII-11; 27, pp. 1, 728-729; 28, p. 3; 37, p. 2
175819	12/17/01	PCE	0.85	0.14	1.6	2, p. BII-11; 27, pp. 1, 730-731; 28, p. 3; 37, p. 2

Notes: ug/L - Micrograms per Liter  
PCE - Tetrachloroethylene  
CRSC - Cancer Risk Screening Concentration  
MDL - Method Detection Limit

GW-Observed Release  
Floridan Aquifer

2002 Private Well Samples

Sample ID	Date Collected	Hazardous Substance	Concentration (ug/L)	MDL (ug/L)	CRSC (ug/L)	References
176397	1/3/02	PCE	0.69	0.14	1.6	2, p. BII-11; 27, pp. 1, 735-736; 28, p. 3; 37, p. 2
176395	1/3/02	PCE	0.84	0.14	1.6	2, p. BII-11; 27, pp. 1, 737-738; 28, p. 3; 37, p. 2
176394	1/3/02	PCE	0.7	0.14	1.6	2, p. BII-11; 27, pp. 1, 739-740; 28, p. 3; 37, p. 2
179476	2/25/02	PCE	1.7	0.14	1.6	2, p. BII-11; 27, pp. 1, 744-745; 28, p. 3; 37, p. 2
179474	2/25/02	PCE	2.1	0.14	1.6	2, p. BII-11; 27, pp. 1, 746-747; 28, p. 3; 37, p. 2
179472	2/25/02	PCE	2.4	0.14	1.6	2, p. BII-11; 27, pp. 1, 748-749; 28, p. 3; 37, p. 2
179471	2/25/02	PCE	2.2	0.14	1.6	2, p. BII-11; 27, pp. 1, 750-751; 28, p. 3; 37, p. 2
179470	2/25/02	PCE	1.6	0.14	1.6	2, p. BII-11; 27, pp. 1, 752-753; 28, p. 3; 37, p. 2

GW-Observed Release  
Floridan Aquifer

2002 Private Well Samples (Continued)

Sample ID	Date Collected	Hazardous Substance	Concentration (ug/L)	MDL (ug/L)	CRSC (ug/L)	References
179469	2/25/02	PCE	0.67	0.14	1.6	2, p. BII-11; 27, pp. 1, 754-755; 28, p. 3; 37, p. 2
179468	2/25/02	PCE	3.3	0.14	1.6	2, p. BII-11; 27, pp. 1, 756-757; 28, p. 3; 37, p. 2
179666	2/26/02	PCE	0.65	0.14	1.6	2, p. BII-11; 27, pp. 1, 761-762; 28, p. 3; 37, p. 2
181207	3/26/02	PCE	1.7	0.14	1.6	2, p. BII-11; 27, pp. 1, 766-767; 28, p. 3; 37, p. 2
181206	3/26/02	PCE	2	0.14	1.6	2, p. BII-11; 27, pp. 1, 768-769; 28, p. 3; 37, p. 2
181205	3/26/02	PCE	1.7	0.14	1.6	2, p. BII-11; 27, pp. 1, 770-771; 28, p. 3; 37, p. 2
181204	3/26/02	PCE	2	0.14	1.6	2, p. BII-11; 27, pp. 1, 772-773; 28, p. 3; 37, p. 2
181203	3/26/02	PCE	2.3	0.14	1.6	2, p. BII-11; 27, pp. 1, 774-775; 28, p. 3; 37, p. 2

GW-Observed Release  
Floridan Aquifer

2002 Private Well Samples (Continued)

Sample ID	Date Collected	Hazardous Substance	Concentration (ug/L)	MDL (ug/L)	CRSC (ug/L)	References
181200	3/26/02	PCE	1.8	0.14	1.6	2, p. BII-11; 27, pp. 1, 776-777; 28, p. 3; 37, p. 2
181199	3/26/02	PCE	1.2	0.14	1.6	2, p. BII-11; 27, pp. 1, 778-779; 28, p. 3; 37, p. 2
183176	4/30/02	PCE	1.3	0.14	1.6	2, p. BII-11; 27, pp. 1, 783-784; 28, p. 3; 37, p. 2
185037	6/5/02	PCE	0.68	0.14	1.6	2, p. BII-11; 27, pp. 1, 788-789; 28, p. 3; 37, p. 2
185035	6/5/02	PCE	1.2	0.14	1.6	2, p. BII-11; 27, pp. 1, 790-791; 28, p. 3; 37, p. 2
185034	6/5/02	PCE	2	0.14	1.6	2, p. BII-11; 27, pp. 1, 792-794; 28, p. 3; 37, p. 2
185033	6/5/02	PCE	1.8	0.14	1.6	2, p. BII-11; 27, pp. 1, 795-796; 28, p. 3; 37, p. 2
185032	6/5/02	PCE	2	0.14	1.6	2, p. BII-11; 27, pp. 1, 797-799; 28, p. 3; 37, p. 2

2002 Private Well Samples (Continued)

Sample ID	Date Collected	Hazardous Substance	Concentration (ug/L)	MDL (ug/L)	CRSC (ug/L)	References
185031	6/5/02	PCE	1.3	0.14	1.6	2, p. BII-11; 27, pp. 1, 800-802; 28, p. 3; 37, p. 2
185030	6/5/02	PCE	1.8	0.14	1.6	2, p. BII-11; 27, pp. 1, 803-804; 28, p. 3; 37, p. 2
186590	7/9/02	PCE	2.1	0.14	1.6	2, p. BII-11; 27, pp. 1, 808-810; 28, p. 3; 37, p. 2
186589	7/9/02	PCE	3	0.14	1.6	2, p. BII-11; 27, pp. 1, 811-813; 28, p. 3; 37, p. 2
186588	7/9/02	PCE	3	0.14	1.6	2, p. BII-11; 27, pp. 1, 814-816; 28, p. 3; 37, p. 2
186587	7/9/02	PCE	2.8	0.14	1.6	2, p. BII-11; 27, pp. 1, 817-818; 28, p. 3; 37, p. 2
186586	7/9/02	PCE	2.2	0.14	1.6	2, p. BII-11; 27, pp. 1, 819-820; 28, p. 3; 37, p. 2



2002 Private Well Samples (Continued)

Sample ID	Date Collected	Hazardous Substance	Concentration (ug/L)	MDL (ug/L)	CRSC (ug/L)	References
186585	7/9/02	PCE	0.66	0.14	1.6	2, p. BII-11; 27, pp. 1, 821-822; 28, p. 3; 37, p. 2
186583	7/9/02	PCE	0.82	0.14	1.6	2, p. BII-11; 27, pp. 1, 823-824; 28, p. 3; 37, p. 2
186582	7/9/02	PCE	1.5	0.14	1.6	2, p. BII-11; 27, pp. 1, 825-827; 28, p. 3; 37, p. 2
186581	7/9/02	PCE	3.4	0.14	1.6	2, p. BII-11; 27, pp. 1, 828-829; 28, p. 3; 37, p. 2
187924	7/30/02	PCE	1.1	0.14	1.6	2, p. BII-11; 27, pp. 1, 833-834; 28, p. 3; 37, p. 2
191682	10/7/02	PCE	1.5	0.14	1.6	2, p. BII-11; 27, pp. 1, 838-840; 28, p. 3; 37, p. 2
191681	10/7/02	PCE	2.1	0.14	1.6	2, p. BII-11; 27, pp. 1, 841-842; 28, p. 3; 37, p. 2

2002 Private Well Samples (Continued)

Sample ID	Date Collected	Hazardous Substance	Concentration (ug/L)	MDL (ug/L)	CRSC (ug/L)	References
191680	10/7/02	PCE	2.5	0.14	1.6	2, p. BII-11; 27, pp. 1, 843-844; 28, p. 3; 37, p. 2
191679	10/7/02	PCE	2	0.14	1.6	2, p. BII-11; 27, pp. 1, 845-846; 28, p. 3; 37, p. 2
191677	10/7/02	PCE	2.6	0.14	1.6	2, p. BII-11; 27, pp. 1, 847-848; 28, p. 3; 37, p. 2
191676	10/7/02	PCE	1.5	0.14	1.6	2, p. BII-11; 27, pp. 1, 849-850; 28, p. 3; 37, p. 2
191675	10/7/02	PCE	3	0.14	1.6	2, p. BII-11; 27, pp. 1, 851-853; 28, p. 3; 37, p. 2
191674	10/7/02	PCE	1.2	0.14	1.6	2, p. BII-11; 27, pp. 1, 854-856; 28, p. 3; 37, p. 2
194581	12/5/02	PCE	2.8	0.14	1.6	2, p. BII-11; 27, pp. 1, 860-862; 28, p. 3; 37, p. 2

2002 Private Well Samples (Continued)

Sample ID	Date Collected	Hazardous Substance	Concentration (ug/L)	MDL (ug/L)	CRSC (ug/L)	References
194579	12/5/02	PCE	2.1	0.14	1.6	2, p. BII-11; 27, pp. 1, 863-865; 28, p. 3; 37, p. 2
194577	12/5/02	PCE	1	0.14	1.6	2, p. BII-11; 27, pp. 1, 866-867; 28, p. 3; 37, p. 2
194576	12/5/02	PCE	0.96	0.14	1.6	2, p. BII-11; 27, pp. 1, 868-869; 28, p. 3; 37, p. 2
194574	12/5/02	PCE	5.8	0.14	1.6	2, p. BII-11; 27, pp. 1, 870-871; 28, p. 3; 37, p. 2
195554	12/19/02	PCE	22	0.14	1.6	2, p. BII-11; 27, pp. 1, 878-880; 28, p. 3; 37, p. 2
195552	12/19/02	PCE	39	0.14	1.6	2, p. BII-11; 27, pp. 1, 881-883; 28, p. 3; 37, p. 2

Notes: ug/L - Micrograms per Liter  
PCE - Tetrachloroethylene  
CRSC - Cancer Risk Screening Concentration  
MDL - Method Detection Limit

2003 Private Well Samples

Sample ID	Date Collected	Hazardous Substance	Concentration (ug/L)	MDL (ug/L)	CRSC (ug/L)	References
196345	1/16/03	PCE	0.97	0.14	1.6	2, p. BII-11; 27, pp. 1, 887-888; 28, p. 3; 37, p. 2
196344	1/16/03	PCE	0.68	0.14	1.6	2, p. BII-11; 27, pp. 1, 889-890; 28, p. 3; 37, p. 2
196343	1/16/03	PCE	0.74	0.14	1.6	2, p. BII-11; 27, pp. 1, 891-892; 28, p. 3; 37, p. 2
196342	1/16/03	PCE	1.2	0.14	1.6	2, p. BII-11; 27, pp. 1, 893-894; 28, p. 3; 37, p. 2
196341	1/16/03	PCE	0.58	0.14	1.6	2, p. BII-11; 27, pp. 1, 895-896; 28, p. 3; 37, p. 2
196340	1/16/03	PCE	0.5	0.14	1.6	2, p. BII-11; 27, pp. 1, 897-898; 28, p. 3; 37, p. 2
196339	1/16/03	PCE	1.1	0.14	1.6	2, p. BII-11; 27, pp. 1, 899-900; 28, p. 3; 37, p. 2

2003 Private Well Samples (Continued)

Sample ID	Date Collected	Hazardous Substance	Concentration (ug/L)	MDL (ug/L)	CRSC (ug/L)	References
196338	1/16/03	PCE	1.1	0.14	1.6	2, p. BII-11; 27, pp. 1, 901-902; 28, p. 3; 37, p. 2
196337	1/16/03	PCE	2.7	0.14	1.6	2, p. BII-11; 27, pp. 1, 903-904; 28, p. 3; 37, p. 2
199332	3/11/03	PCE	1.4	0.14	1.6	2, p. BII-11; 27, pp. 1, 905-910; 28, p. 3; 37, p. 2
199331	3/11/03	PCE	1.8	0.14	1.6	2, p. BII-11; 27, pp. 1, 911-913; 28, p. 3; 37, p. 2
199330	3/11/03	PCE	2	0.14	1.6	2, p. BII-11; 27, pp. 1, 914-916; 28, p. 3; 37, p. 2
199328	3/11/03	PCE	1.6	0.14	1.6	2, p. BII-11; 27, pp. 1, 917-919; 28, p. 3; 37, p. 2
199326	3/11/03	PCE	1.4	0.14	1.6	2, p. BII-11; 27, pp. 1, 920-921; 28, p. 3; 37, p. 2

2003 Private Well Samples (Continued)

Sample ID	Date Collected	Hazardous Substance	Concentration (ug/L)	MDL (ug/L)	CRSC (ug/L)	References
199325	3/11/03	PCE	1.5	0.14	1.6	2, p. BII-11; 27, pp. 1, 922-924; 28, p. 3; 37, p. 2
200154	3/18/03	PCE	1.6	0.14	1.6	2, p. BII-11; 27, pp. 1, 928-929; 28, p. 3; 37, p. 2
200152	3/18/03	PCE	2	0.14	1.6	2, p. BII-11; 27, pp. 1, 930-931; 28, p. 3; 37, p. 2
200151	3/18/03	PCE	2.2	0.14	1.6	2, p. BII-11; 27, pp. 1, 932-934; 28, p. 3; 37, p. 2
200150	3/18/03	PCE	2	0.14	1.6	2, p. BII-11; 27, pp. 1, 935-936; 28, p. 3; 37, p. 2
200146	3/18/03	PCE	2	0.14	1.6	2, p. BII-11; 27, pp. 1, 937-938; 28, p. 3; 37, p. 2
200145	3/18/03	PCE	1	0.14	1.6	2, p. BII-11; 27, pp. 1, 939-941; 28, p. 3; 37, p. 2

2003 Private Well Samples (Continued)

Sample ID	Date Collected	Hazardous Substance	Concentration (ug/L)	MDL (ug/L)	CRSC (ug/L)	References
202173	4/29/03	PCE	0.73	0.14	1.6	2, p. BII-11; 27, pp. 1, 945-946; 28, p. 3; 37, p. 2
202172	4/29/03	PCE	3.8	0.14	1.6	2, p. BII-11; 27, pp. 1, 947-949; 28, p. 3; 37, p. 2
202171	4/29/03	PCE	1.4	0.14	1.6	2, p. BII-11; 27, pp. 1, 950-951; 28, p. 3; 37, p. 2
203579	5/28/03	PCE	1.5	0.14	1.6	2, p. BII-11; 27, pp. 1, 955-956; 28, p. 3; 37, p. 2
203578	5/28/03	PCE	1	0.14	1.6	2, p. BII-11; 27, pp. 1, 957-959; 28, p. 3; 37, p. 2
203575	5/28/03	PCE	0.51	0.14	1.6	2, p. BII-11; 27, pp. 1, 960-961; 28, p. 3; 37, p. 2
213291	12/2/03	PCE	0.73	0.14	1.6	2, p. BII-11; 27, pp. 1, 965-966; 28, p. 3; 37, p. 2

2003 Private Well Samples (Continued)

Sample ID	Date Collected	Hazardous Substance	Concentration (ug/L)	MDL (ug/L)	CRSC (ug/L)	References
213290	12/2/03	PCE	1.9	0.14	1.6	2, p. BII-11; 27, pp. 1, 967-968; 28, p. 3; 37, p. 2
213289	12/2/03	PCE	1.2	0.14	1.6	2, p. BII-11; 27, pp. 1, 969-970; 28, p. 3; 37, p. 2
213288	12/2/03	PCE	0.55	0.14	1.6	2, p. BII-11; 27, pp. 1, 971-972; 28, p. 3; 37, p. 2
213287	12/2/03	PCE	1.5	0.14	1.6	2, p. BII-11; 27, pp. 1, 973-974; 28, p. 3; 37, p. 2
213483	12/4/03	PCE	0.76	0.14	1.6	2, p. BII-11; 27, pp. 1, 976-978; 28, p. 3; 37, p. 2
213490	12/8/03	PCE	1.4	0.14	1.6	2, p. BII-11; 27, pp. 1, 979-981; 28, p. 3; 37, p. 2
913491	12/8/03	PCE	0.6	0.14	1.6	2, p. BII-11; 27, pp. 1, 982-984; 28, p. 3; 37, p. 2



2003 Private Well Samples (Continued)

Sample ID	Date Collected	Hazardous Substance	Concentration (ug/L)	MDL (ug/L)	CRSC (ug/L)	References
214497	12/23/03	PCE	0.57	0.14	1.6	2, p. BII-11; 27, pp. 1, 988-990; 28, p. 3; 37, p. 2
214496	12/23/03	PCE	1.1	0.14	1.6	2, p. BII-11; 27, pp. 1, 991-993; 28, p. 3; 37, p. 2
214495	12/23/03	PCE	1.3	0.14	1.6	2, p. BII-11; 27, pp. 1, 994-996; 28, p. 3; 37, p. 2
214494	12/23/03	PCE	2.2	0.14	1.6	2, p. BII-11; 27, pp. 1, 997-999; 28, p. 3; 37, p. 2
214493	12/23/03	PCE	2	0.14	1.6	2, p. BII-11; 27, pp. 1, 1000-1002; 28, p. 3; 37, p. 2
214491	12/23/03	PCE	1.9	0.14	1.6	2, p. BII-11; 27, pp. 1, 1003-1005; 28, p. 3; 37, p. 2
214490	12/23/03	PCE	1.8	0.14	1.6	2, p. BII-11; 27, pp. 1, 1006-1008; 28, p. 3; 37, p. 2

2003 Private Well Samples (Continued)

Sample ID	Date Collected	Hazardous Substance	Concentration (ug/L)	MDL (ug/L)	CRSC (ug/L)	References
214489	12/23/03	PCE	1.3	0.14	1.6	2, p. BII-11; 27, pp. 1, 1009-1011; 28, p. 3; 37, p. 2
214488	12/23/03	PCE	1.6	0.14	1.6	2, p. BII-11; 27, pp. 1, 1012-1014; 28, p. 3; 37, p. 2

Notes: ug/L - Micrograms per Liter  
PCE - Tetrachloroethylene  
CRSC - Cancer Risk Screening Concentration  
MDL - Method Detection Limit

GW-Observed Release  
Floridan Aquifer

2004 Private Well Samples

Sample ID	Date Collected	Hazardous Substance	Concentration (ug/L)	MDL (ug/L)	CRSC (ug/L)	References
215015	1/7/04	PCE	0.66	0.14	1.6	2, p. BII-11; 27, pp. 1, 1020-1021; 28, p. 3; 37, p. 2
215014	1/7/04	PCE	0.72	0.14	1.6	2, p. BII-11; 27, pp. 1, 1022-1023; 28, p. 3; 37, p. 2
215629	1/20/04	PCE	0.64	0.14	1.6	2, p. BII-11; 27, pp. 1, 1027-1028; 28, p. 3; 37, p. 2
215628	1/20/04	PCE	1.1	0.14	1.6	2, p. BII-11; 27, pp. 1, 1029-1030; 28, p. 3; 37, p. 2
215627	1/20/04	PCE	0.91	0.14	1.6	2, p. BII-11; 27, pp. 1, 1031-1032; 28, p. 3; 37, p. 2
215625	1/20/04	PCE	0.89	0.14	1.6	2, p. BII-11; 27, pp. 1, 1033-1034; 28, p. 3; 37, p. 2
215624	1/20/04	PCE	1.3	0.14	1.6	2, p. BII-11; 27, pp. 1, 1035-1036; 28, p. 3; 37, p. 2
216783	2/10/04	PCE	0.57	0.14	1.6	2, p. BII-11; 27, pp. 1, 1044-1045; 28, p. 3; 37, p. 2

GW-Observed Release  
Floridan Aquifer

2004 Private Well Samples (Continued)

Sample ID	Date Collected	Hazardous Substance	Concentration (ug/L)	MDL (ug/L)	CRSC (ug/L)	References
217220	2/20/04	PCE	1.8	0.14	1.6	2, p. BII-11; 27, pp. 1, 1049-1050; 28, p. 3; 37, p. 2
217219	2/20/04	PCE	1.9	0.14	1.6	2, p. BII-11; 27, pp. 1, 1051-1052; 28, p. 3; 37, p. 2
217218	2/20/04	PCE	1.8	0.14	1.6	2, p. BII-11; 27, pp. 1, 1053-1054; 28, p. 3; 37, p. 2
217217	2/20/04	PCE	1.5	0.14	1.6	2, p. BII-11; 27, pp. 1, 1055-1056; 28, p. 3; 37, p. 2
217216	2/20/04	PCE	2	0.14	1.6	2, p. BII-11; 27, pp. 1, 1057-1058; 28, p. 3; 37, p. 2
218124	3/5/04	PCE	2.6	0.14	1.6	2, p. BII-11; 27, pp. 1, 1062-1063; 28, p. 3; 37, p. 2
218123	3/5/04	PCE	2.4	0.14	1.6	2, p. BII-11; 27, pp. 1, 1064-1065; 28, p. 3; 37, p. 2
218121	3/5/04	PCE	1.4	0.14	1.6	2, p. BII-11; 27, pp. 1, 1066-1067; 28, p. 3; 37, p. 2

GW-Observed Release  
Floridan Aquifer

2004 Private Well Samples (Continued)

Sample ID	Date Collected	Hazardous Substance	Concentration (ug/L)	MDL (ug/L)	CRSC (ug/L)	References
218120	3/5/04	PCE	2.3	0.14	1.6	2, p. BII-11; 27, pp. 1, 1068-1069; 28, p. 3; 37, p. 2
221313	4/22/04	PCE	0.7	0.14	1.6	2, p. BII-11; 27, pp. 1, 1073-1074; 28, p. 3; 37, p. 2
221312	4/22/04	PCE	0.65	0.14	1.6	2, p. BII-11; 27, pp. 1, 1075-1076; 28, p. 3; 37, p. 2
222150	5/10/04	PCE	2	0.14	1.6	2, p. BII-11; 27, pp. 1, 1080-1081; 28, p. 3; 37, p. 2
222149	5/10/04	PCE	1.9	0.14	1.6	2, p. BII-11; 27, pp. 1, 1082-1083; 28, p. 3; 37, p. 2
222148	5/10/04	PCE	1.6	0.14	1.6	2, p. BII-11; 27, pp. 1, 1084-1085; 28, p. 3; 37, p. 2
222146	5/10/04	PCE	1.5	0.14	1.6	2, p. BII-11; 27, pp. 1, 1086-1087; 28, p. 3; 37, p. 2
222145	5/10/04	PCE	2	0.14	1.6	2, p. BII-11; 27, pp. 1, 1088-1089; 28, p. 3; 37, p. 2

GW-Observed Release  
Floridan Aquifer

2004 Private Well Samples (Continued)

Sample ID	Date Collected	Hazardous Substance	Concentration (ug/L)	MDL (ug/L)	CRSC (ug/L)	References
222143	5/10/04	PCE	0.73	0.14	1.6	2, p. BII-11; 27, pp. 1, 1090-1091; 28, p. 3; 37, p. 2
225266	7/8/04	PCE	1.4	0.14	1.6	2, p. BII-11; 27, pp. 1, 1095-1096; 28, p. 3; 37, p. 2
225265	7/8/04	PCE	2.1	0.14	1.6	2, p. BII-11; 27, pp. 1, 1097-1098; 28, p. 3; 37, p. 2
225264	7/8/04	PCE	2.4	0.14	1.6	2, p. BII-11; 27, pp. 1, 1099-1100; 28, p. 3; 37, p. 2
225263	7/8/04	PCE	2.4	0.14	1.6	2, p. BII-11; 27, pp. 1, 1101-1102; 28, p. 3; 37, p. 2
227499	8/20/04	PCE	0.6	0.14	1.6	2, p. BII-11; 27, pp. 1, 1106-1107; 28, p. 3; 37, p. 2
227498	8/20/04	PCE	1.8	0.14	1.6	2, p. BII-11; 27, pp. 1, 1108-1109; 28, p. 3; 37, p. 2
227497	8/20/04	PCE	1.8	0.14	1.6	2, p. BII-11; 27, pp. 1, 1110-1111; 28, p. 3; 37, p. 2

2004 Private Well Samples (Continued)

Sample ID	Date Collected	Hazardous Substance	Concentration (ug/L)	MDL (ug/L)	CRSC (ug/L)	References
229129	10/20/04	PCE	1.6	0.14	1.6	2, p. BII-11; 27, pp. 1, 1115-1116; 28, p. 3; 37, p. 2
232400	11/29/04	PCE	1.4	0.14	1.6	2, p. BII-11; 27, pp. 1, 1120-1121; 28, p. 3; 37, p. 2
234047	12/28/04	PCE	1.7	0.14	1.6	2, p. BII-11; 27, pp. 1, 1132-1133; 28, p. 3; 37, p. 2
234046	12/28/04	PCE	0.9	0.14	1.6	2, p. BII-11; 27, pp. 1, 1134-1135; 28, p. 3; 37, p. 2
234045	12/28/04	PCE	0.78	0.14	1.6	2, p. BII-11; 27, pp. 1, 1136-1137; 28, p. 3; 37, p. 2
234044	12/28/04	PCE	1.7	0.14	1.6	2, p. BII-11; 27, pp. 1, 1138-1139; 28, p. 3; 37, p. 2
234162	12/29/04	PCE	1.6	0.14	1.6	2, p. BII-11; 27, pp. 1, 1125-1126; 28, p. 3; 37, p. 2
234161	12/29/04	PCE	1.5	0.14	1.6	2, p. BII-11; 27, pp. 1, 1127-1128; 28, p. 3; 37, p. 2

Notes:    ug/L        - Micrograms per Liter  
              PCE         - Tetrachloroethylene  
              CRSC       - Cancer Risk Screening Concentration  
              MDL        - Method Detection Limit

GW-Observed Release  
Floridan Aquifer

2005 Private Well Samples

Sample ID	Date Collected	Hazardous Substance	Concentration (ug/L)	MDL (ug/L)	CRSC (ug/L)	References
234517	1/5/05	PCE	0.53	0.14	1.6	2, p. BII-11; 27, pp. 1, 1143-1144; 28, p. 3; 37, p. 2
234961	1/12/05	PCE	0.63	0.14	1.6	2, p. BII-11; 27, pp. 1, 1148-1149; 28, p. 3; 37, p. 2
234958	1/12/05	PCE	0.56	0.14	1.6	2, p. BII-11; 27, pp. 1, 1150-1151; 28, p. 3; 37, p. 2
234957	1/12/05	PCE	1.6	0.14	1.6	2, p. BII-11; 27, pp. 1, 1152-1153; 28, p. 3; 37, p. 2
234956	1/12/05	PCE	0.9	0.14	1.6	2, p. BII-11; 27, pp. 1, 1154-1155; 28, p. 3; 37, p. 2
234954	1/12/05	PCE	0.78	0.14	1.6	2, p. BII-11; 27, pp. 1, 1156-1157; 28, p. 3; 37, p. 2
236470	2/4/05	PCE	1.1	0.14	1.6	2, p. BII-11; 27, pp. 1, 1161-1162; 28, p. 3; 37, p. 2
238456	3/10/05	PCE	1.5	0.14	1.6	2, p. BII-11; 27, pp. 1, 1166-1167; 28, p. 3; 37, p. 2



GW-Observed Release  
Floridan Aquifer

2005 Private Well Samples (Continued)

Sample ID	Date Collected	Hazardous Substance	Concentration (ug/L)	MDL (ug/L)	CRSC (ug/L)	References
238455	3/10/05	PCE	1.7	0.14	1.6	2, p. BII-11; 27, pp. 1, 1168-1169; 28, p. 3; 37, p. 2
238453	3/10/05	PCE	1.3	0.14	1.6	2, p. BII-11; 27, pp. 1, 1170-1171; 28, p. 3; 37, p. 2
238452	3/10/05	PCE	0.86	0.14	1.6	2, p. BII-11; 27, pp. 1, 1172-1173; 28, p. 3; 37, p. 2
238680	3/14/05	PCE	0.88	0.14	1.6	2, p. BII-11; 27, pp. 1, 1177-1178; 28, p. 3; 37, p. 2
238678	3/15/05	PCE	0.5	0.14	1.6	2, p. BII-11; 27, pp. 1, 1179-1180; 28, p. 3; 37, p. 2
240663	4/11/05	PCE	0.71	0.14	1.6	2, p. BII-11; 27, pp. 1, 1184-1185; 28, p. 3; 37, p. 2
240662	4/11/05	PCE	1.4	0.14	1.6	2, p. BII-11; 27, pp. 1, 1186-1187; 28, p. 3; 37, p. 2
243778	6/7/05	PCE	1.8	0.14	1.6	2, p. BII-11; 27, pp. 1, 1188-1191; 28, p. 3; 37, p. 2

2005 Private Well Samples (Continued)

Sample ID	Date Collected	Hazardous Substance	Concentration (ug/L)	MDL (ug/L)	CRSC (ug/L)	References
245948	7/18/05	PCE	1.4	0.14	1.6	2, p. BII-11; 27, pp. 1, 1195-1196; 28, p. 3; 37, p. 2

Notes: ug/L - Micrograms per Liter  
PCE - Tetrachloroethylene  
CRSC - Cancer Risk Screening Concentration  
MDL - Method Detection Limit

**Attribution:**

Through 1975, the AT property was part of a large orchard (Ref. 7, pp. 2, 4, 13, 15). Limited documentation exists detailing the operations at the AT property. However, Southeast operated an UST manufacturing and refurbishing facility on the property from approximately October 1980 until approximately 1999 (Refs. 7, pp. 5, 22-23; 12, pp. 1-3). Aerial photographs indicate the presence of buildings, up to 526 storage tanks, numerous containers, ground scars, mounded materials, stains around many of the tanks and in several areas around the property, a trench containing dark-toned material and debris, and a probable retention basin were noted (Ref. 7, pp. 1-49). The tank washing operations were conducted in the area occupied in 2005 by the landscaping business, gravel central area, the storage area for "electronic" buildings, and the area undergoing development in the northernmost portion of the property (Ref. 9, p. 6). Several investigations at the property have indicated the presence of PCE in on-site soils, soil vapors, and ground water (Refs. 9, pp. 6-8; 10, pp. 7-12; 15, pp. 16-17, 65-73; 16, pp. 3, 7-10, 14, 28, 30-36, 38, 40).

PCE is a clear, colorless liquid with an etheric odor commonly used in metal degreasing operations (Ref. 29, pp. 4, 9). PCE is a manmade substance, and contamination of land, air, surface water, and ground water are primarily a result of industrial spillage or improper disposal during manufacture or use (Ref. 29, p. 9). Industrial disposal is the likely source of PCE contamination in drinking water (Ref. 29, p. 17). PCE volatilizes readily from soils and is resistant to abiotic and aerobic degradation in water; however, it is biodegraded under anerobic conditions to yield trichloroethene, dichloroethene, vinyl chloride, ethane, and ethene (Ref. 29, p. 4). PCE is mobile in ground water in the absence of any removal process and leaches rapidly through sandy soil (Ref. 29, p. 10). To prevent the decomposition of PCE, by oxidation, stabilizers including amines, epoxides, and phenols are added in small volumes during manufacture. Reported impurities include 1,1,1-trichloroethane, carbon tetrachloride, dichloromethane, trichloroethene, other chlorinated solvents, and water (Ref. 29, p. 7). One study has been identified that indicates a natural source of PCE; however, the study focused on marine biota and no studies have been identified that indicate a natural source of PCE in ground water (Ref. 38).

As of June 2005, the property was comprised of several businesses including a row of office and warehouse space separated by a paved drive from a landscape business (Thonotosassa Materials, Inc.) (Ref. 10, pp. 1-2, 5). A fence surrounds the landscape business, which consists of a trailer storefront along the highway and landscaping materials including soil and rocks stockpiled in the back. The businesses located in the office and warehouse complex included MB Accountants, Jamson Environmental, Hardcor Concrete Cutting, Unity Medical Supplies, Jimco Automotive, Neon 2 Go, and Bob's Dusty Stuff (Refs. 9, p. 3; 10, pp. 1-2, 5). The drive is paved to the rear portion of the property, where a number of new RV are stored in a fenced parking lot. The drive then turns to the east, where it is no longer paved and continues for approximately 50 feet where it turns to the north. The unpaved portion of the drive continues past the RV parking lot to the rear of the property, where a residential home is located (Refs. 9, p. 3; 10, p. 5). No information regarding whether the home is inhabited is available. Numerous pallets are stored along the driveway (Refs. 9, p. 3; 10, p. 5). The property is bordered to the west and south by residential areas, and to the east and north by agricultural areas (Ref. 7, pp. 5, 43, 45).

Several companies have operated at the AT property including: Southeast Oil and Development Corporation from February 1976 thorough November 1988; Four Star Petroleum from April 1982 through November 1985; Novadyne Corporation from January 1986 through August 1996; PS Equipment, Inc. from February 1989 through August 1994; and, Arkla Terra Inc. from February 1993 until at least April 2006

(Ref. 5, pp. 1-15, 29-43). Previous reports also indicate that Perma Tank, Inc. and Titan Tank, Inc. operated at the property (Refs. 4, p. 4; 14, p. 2; 15, p. 1). No information regarding permits for operations conducted at the property is available.

In December 1994, the Site Investigation Section (SIS) of the Florida Department of Environmental Protection (FDEP) conducted a supplemental assessment that concluded that the Entrepreneur of Tampa property, formerly operated by Southeast Oil and Development, was a source of perchloroethene (PCE) and trichloroethene (TCE) contamination in the Floridan aquifer (Ref. 14, p. 1). During the course of this investigation, ground water samples were collected from three supply wells at the Hilltop Mobile Home Park, located approximately 1,000 feet east of and hydrogeologically isolated from the ground water plume, also known as the East Fowler Avenue plume, associated with the Entrepreneur of Tampa property (Ref. 14, pp. 1-2). These three supply wells indicated the presence of PCE. Based on the contamination detected in the wells from this hydrogeologically separate area, SIS contacted the Hillsborough County Public Health Unit (HCPHU) and advised the collection of ground water samples adjacent to the Southeast Oil and Development operation located at 11706 U.S. Highway 301, the AT property (Ref. 14, pp. 1-2).

In June 1994, FDEP issued a NOV to SODC located at 11706 U.S. Highway 301 N. for the contamination of ground water related to site activities (Ref. 12, pp. 1, 3-5, 15). The NOV states that monitoring wells samples in 1990 and 1991 revealed the presence of PCE in ground water beneath the property and concluded that the solvent contamination was the result of the tank refurbishing activities at the property (Ref. 12, pp. 5-6). Count III of the NOV states that the solvent-contaminated soils and ground water at the property are continuing to degrade the water quality in nearby areas (Ref. 12, p. 8).

In October 2000, FDEP SIS submitted a CAR for the Rock Hill Road Site, which included an investigation of the soils at the AT property as well as eight other properties in the vicinity of Rock Hill Road (Ref. 15, pp. 1-5). During the CAR, 78 soil-gas samples were collected from the AT property and analyzed by a mobile laboratory for VOC. Of the 78 soil-gas samples collected, 23 revealed detectable levels of PCE ranging from 0.5 ug/L to 403.3 ug/L (Ref. 15, pp. 65-73). Additionally, 26 subsurface soil samples from 10 locations and one ground water sample were collected from the AT property. Subsurface soil samples revealed detectable levels of PCE ranging from 2.91 ug/kg to 320 ug/kg. The ground water sample revealed 8.6 ug/L of PCE (Ref. 15, pp. 65-73). No background samples were designated in the CAR; however, several samples indicated non-detect (Ref. 15, pp. 65-73). Five potable well ground water sampling events were conducted at the Rock Hill Site, which indicated that the AT property was a likely source of the PCE ground water contamination (Ref. 14, pp. 4, 7, 10, 14; 15, pp. 16-17). The potable well ground water sampling results are as follows:

- In February 1995, HCPHU collected nine ground water samples from potable wells adjacent to Rock Hill Road, Jackson Road, East Fowler Avenue, Ohio Road, and U.S. Highway 301. The results indicated that four wells exceeded the FPDWS for PCE of 3 ug/L and the MCL of 5 ug/L with concentrations ranging from 12 to 180 ug/L (Refs. 2, p. BII-11; 14, p. 4; 15, pp. 1, 36-55).
- Between April 4, 1995 and July 1, 1995, SIS and HCPHU sampled 215 potable wells. Of the 215 wells sampled, 117 were reported to contain detectable levels of PCE with 78 exceeding the FPDWS. Spatially, the contamination extended from north of Rock Hill Road to approximately 3,500 feet south of the intersection of Skewlee and Timmons Roads. The highest concentrations of PCE were located adjacent to the intersection of U.S. Highway 301 and Jackson Road. Based on the results of the private well sampling, FDEP provided for the installation of commercial water treatment systems to

remove VOC and other contaminants from PCE-contaminated wells and provided approximately \$1,000,000 to Hillsborough County to extend municipal water lines into the affected areas in order to connect the affected residents to the municipal water supply (Refs. 14, pp. 4-6; 15, pp. 2, 34, 36-55).

- On August 22, 1995, SIS installed five shallow wells (RHS-1 through RHS-5) to a depth of 40 feet bls, and one deep well (RHF-1). No VOC were detected in any of the newly installed wells (Refs. 14, pp. 4, 7-8; 15, pp. 5-6, 14-16).
- In March 1996, SIS conducted additional investigations at three residential properties, the Smith, Thornton, and Brice properties that contained solid waste piles, junk cars, and debris from illegal dumping; the Lester property that conducted mobile home sales and service; and the O'Neil property that conducted auto repair. Direct-push technology was utilized to collect shallow ground water samples and electric conductivity data to determine lithologic profiles. Soil and soil-gas samples were also collected. All samples were analyzed with a GC and no samples revealed significant VOC contamination (Refs. 14, pp. 7, 9; 15, pp. 6-7, 13-14).
- On April 3, 1996, SIS initiated an investigation of Floridan aquifer contamination at the Rock Hill Site. SIS installed 10 deep monitoring wells (RHF-2, RHF-3, RHF-6 through RHF-13) in the area to determine ground water flow direction, ground water gradient, and ground water quality. Analytical results indicated PCE concentrations ranging from 0 to 200 ug/L in the newly installed wells (Refs. 14, pp. 7, 10-14; 15, pp. 8-9, 14-16).

The CAR concluded that a large area of the Floridan aquifer was contaminated with PCE. The plume was determined to extend over 7,500 feet southwest from the intersection of U.S. Highway 301 and Jackson Road to near the intersection of Tom Fulson and Joe Eberts Roads. The CAR concluded that the contaminated soils and approximately 25,000 square feet of PCE-contaminated soil-gas on the AT property was a source of the PCE ground water plume (Ref. 15, p. 16). Numerous private wells located downgradient of the property are contaminated with PCE (Ref. 27, pp. 1-1196; 28, pp. 1-3; see also Section 3.1.1 of this HRS documentation record).

In January 2005, Weston START-2 submitted a Site-Specific Sampling Plan to the EPA for an HRS Special Study Investigation of the AT property (Ref. 9). The sampling activities at the AT property were conducted in June 2005 (Ref. 10, p. 2). The sampling investigation was conducted as an HRS Special Study that focused on the collection of soil and ground water samples to fill data gaps associated with the source characterization (Refs. 9, pp. 1-2; 10, p. i-2). Due to earth-moving activities on the property at the time of the sampling, and the length of time since AT operated at the property, surface soil samples were collected from 0- to 2-foot bls (Refs. 9, p. 8; 10, pp. 7-11). The sampling results indicated elevated levels of PCE in the subsurface soils at the AT property, with concentrations ranging from 10U ug/kg to 88 ug/kg. Additionally, an on-site temporary ground water well indicated an elevated level of PCE at 23 ug/L (Ref. 16, pp. 3, 6-9, 10, 14, 28, 30-60).

Upgradient of the Arkla Terra property, 11 State and EPA regulated facilities exist in addition to AT; however, based on the types of businesses; none of the facilities are known to use PCE (Ref. 31, pp. 1-23). The Entrepreneur of Tampa property is located approximately 1,000 feet west of the AT property and the operations at this property are reported to be identical to the UST refurbishing operations conducted at AT; however, this property is located downgradient of AT (Refs. 7, p. 5; 14, pp. 1-2; 15, pp. 32-33).

**Hazardous Substances Released:**

Tetrachloroethene/tetrachloroethylene (PCE)

Ground water Observed Release Factor Value: 550

## 3.2 WASTE CHARACTERISTICS

## 3.2.1 TOXICITY/MOBILITY

Hazardous Substance	Source No.	Toxicity Factor Value	Mobility Factor Value	Toxicity/Mobility	Does Hazardous Substance Meet Observed Release by chemical analysis? (Y/N)	References
PCE	1	100	1	100	Y	1, Table 3-9; 2, p. BI-11

**Toxicity/Mobility Factor Value: 100**  
(Ref. 1, Table 3-9)

**3.2.2 HAZARDOUS WASTE QUANTITY**

Source No.	Source Type	Hazardous Waste Quantity
1	Contaminated Soil	>0
SUM = >0		

Sum of Values: &gt;0

The hazardous waste quantity factor is assigned a value of 100 because Level I contamination of site-attributable constituents has been documented in private wells near the property (Refs. 1, Section 2.4.2.2 and Table 2-6; 27).

Hazardous Waste Quantity Factor Value: 100  
(Ref. 1, Section 2.4.2.2 and Table 2-6)

**3.2.3 WASTE CHARACTERISTICS FACTOR CATEGORY VALUE**

Toxicity/Mobility Factor Value: 100  
Hazardous Waste Quantity Factor Value: 100

Toxicity/Mobility Factor Value (100) X  
Hazardous Waste Quantity Factor Value (100) = 10,000

**Waste Characteristics Factor Category Value: 10**  
(Ref. 1, Table 2-7)



### 3.3 TARGETS

The majority of residents within a 4-mile radius of the AT property obtain drinking water from private and community wells (Ref. 13, p. 7). The City of Temple Terrace Water Department (TTWD) maintains 10 wells in the area; however, all of the wells are located outside the 4-mile radius from the property (Refs. 28, pp. 1-3; 32, pp. 1-2).

Approximately 197 private wells and 114 community wells are located within 4 radial miles of the AT property and all of the contaminated wells are located downgradient of the AT property (Refs. 13, p. 7; 15, pp. 32-33; 28, pp. 1-3). Community wells are defined by the State of Florida as wells that serve a population of at least 25 year-round residents (Ref. 33, pp. 5-6).

#### 3.3.1 NEAREST WELL

The nearest well is located at 11818 Jackson Road, within 0.25-mile west of the AT property (Ref. 28, p. 3).

Level of Contamination (I, II, or potential): Level I

**Nearest Well Factor Value: 50**  
(Ref. 1, Table 3-11)

#### 3.3.2 POPULATION

##### 3.3.2.1 Level of Contamination

##### 3.3.2.2 Level I Concentrations

Numerous Level I concentrations of PCE have been documented in private wells located within 4 radial miles of the property and are distributed as follows:

Radial Distance Ring	Number of Private Wells
0- to 0.25-mile	8 wells
0.25- to 0.5-mile	13 wells
0.5- to 1-mile	27 wells
1- to 2-miles	19 wells
2- to 3-miles	0 wells
3- to 4-miles	0 wells

Note: 67 wells x 2.51 persons per household = 168.17 persons

Reference(s): 27, pp. 1-1196; 28, pp. 1-3; 34, pp. 1-2

Population Served by Level I Wells :1,681.7

**Level I Concentration Factor Value: 1,681.7**

### 3.3.2.3 Level II Concentrations

Numerous Level II concentrations of PCE have been documented in private wells located within 4 radial miles of the property and are distributed as follows:

Radial Distance Ring	Number of Private Wells
0 to 0.25-mile	2 wells
0.25- to 0.5-mile	3 wells
0.5- to 1-mile	5 wells
1- to 2-miles	19 wells
2- to 3-miles	0 wells
3- to 4-miles	0 wells

Note: 29 wells x 2.51 persons per household = 72.79 persons

Reference(s): 27, pp. 1-1196; 28, pp. 1-3; 34, pp. 1-2

Population Served by Level II Wells: 72.79

**Level II Concentrations Factor Value: 72.79**

### 3.3.2.4 Potential Contamination

According to the 2000 U.S. Census, the average number of persons per household in Hillsborough County is 2.51 and community wells in the State are required to serve at least 25 persons to be classified as a community well (Refs. 34, p. 2; 33, p. 5). For the purposes of this Documentation Record, the community well populations were calculated conservatively as serving the minimum of 25 residents. The number of Level I and Level II private wells were subtracted from each distance ring and the potential contamination population was calculated using that number. Therefore, the population served by community and private wells in the vicinity of the property is distributed as follows: 0- to 0.25-mile, 250.4 persons [100.4 + 150 = 250.4 (40 private wells x 2.51 + 6 community wells x 25)]; 0.25- to 0.5-mile, 328.01 persons [128.01 + 200 = 328.01 (51 private wells x 2.51 + 8 community wells x 25)]; 0.5- to 1-mile, 175.10 persons [25.10 + 150 = 175.1 (10 private wells x 2.51 + 6 community wells x 25)]; 1- to 2-miles, 175 persons (7 community wells x 25 = 175); 2- to 3-miles, 1,225 persons (49 community wells x 25 = 1,225); 3- to 4-miles, 950 persons (38 community wells x 25 = 950) (Refs. 13, p. 7; 34, pp. 1-3).

**Private and Community Drinking Water Wells within 4 Miles of the  
Arkla Terra Property**

Distance Category (miles)	Number of Private Wells	Number of Community Wells	Population per Distance Ring	Distance Weighted Population Value	References
0 - 0.25	40	6	250.4	164	1, Table 3-12; 13, p. 7; 34, p. 2; 28, pp. 1-3; 33, p. 5
0.25 - 0.5	51	8	328.51	324	
0.5 - 1	10	6	175.10	52	
1 - 2	0	7	175	30	
2 - 3	0	49	1,225	212	
3 - 4	0	38	950	42	

Sum of Distance-Weighted Population Values:  $164 + 324 + 52 + 30 + 212 + 42 = 824$

(as applied to Reference 1 Section 3.3.2.4) = 82.4

**Potential Contamination Factor Value: 82.0**

### 3.3.3 RESOURCES

According to the sample data sheets, a commercial dairy farm is located on Tom Folsom Road within 4 radial miles of the AT Property. Tom Folsom Road is located entirely within the 4-mile Target Distance Limit (TDL) of the property (Refs. 27, pp. 39-40; 28, p. 3). However, it could not be verified that water obtained from the well on the property is used to water the commercial livestock. No other potential resource use was identified; therefore, a factor value of 0 was assigned for resources.

**Resources Factor Value: 0**

### 3.3.4 WELLHEAD PROTECTION AREA

Community wells are located within a 4-mile radius of the property and all community wells in Florida are located within Wellhead Protection Areas (Ref. 33). No source lies above or within a wellhead protection area, and it is unclear whether a designated wellhead protection area is present at the location of the contaminated wells cited within this document. Therefore, a factor value of 0 was assigned for wellhead protection area.

**Wellhead Protection Area Factor Value: 0**